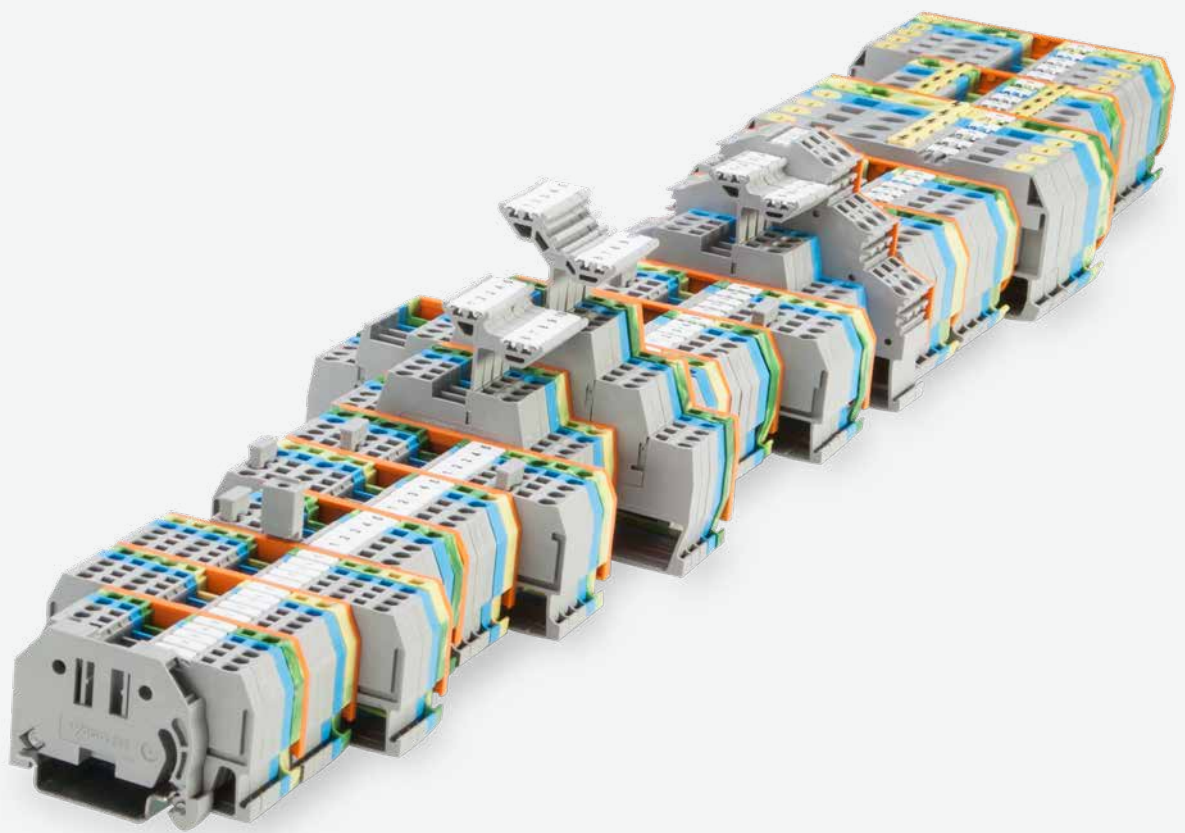
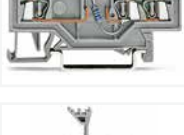




WAGO Rail-Mount Terminal Blocks Classic
WAGO Installation Rail-Mount Terminal
Blocks TOPJOB® Classic

WAGO Rail-Mount Terminal Blocks Classic

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® Classic

			Page
	Through/Ground Conductor/Shield Conductor and Ex Terminal Blocks 0.08 ... 35 mm ² (28 ... 2 AWG)	279 ... 285 Series	312
	Distribution Terminal Blocks 10 mm ² (8 AWG) / 35 mm ² (2 AWG)	284 Series	325
	Multilevel Rail-Mount Terminal Blocks 1.5/2.5/4 mm ² (16/12 AWG)	279/280/281 Series	328
	TOPJOB® Classic Through/Ground Conductor/Shield Conductor and Ex Terminal Blocks 0.08 ... 35 mm ² (28 ... 2 AWG)	780 ... 785 Series	334
	Disconnect/Test Terminal Blocks 0.08 ... 4 mm ² (28 ... 12 AWG) and 0.2 ... 6 mm ² (24 ... 10 AWG)	280/281/282 Series	352
	Disconnect/Ground Conductor Disconnect and Fuse Terminal Blocks 0.2 ... 6 mm ² (24 ... 10 AWG)	282 Series	368
	Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder 0.08 ... 4 mm ² (28 ... 12 AWG)	281 Series	374
	Fused Disconnect Terminal Blocks for Cylindrical Fuses 2.5 ... 16 mm ² (14 ... 6 AWG)	811 Series	382
	Fuse Plugs on Carrier Terminal Blocks	281/280 Series	378
	Sensor and Actuator Terminal Blocks 0.08 ... 2.5 mm ² (28 ... 12 AWG)	280 Series	390
	Diode and LED Terminal Blocks 0.08 ... 4 mm ² (28 ... 12 AWG)	279/280/281 Series	406
	Multilevel Diode and LED Terminal Blocks 0.08 ... 4 mm ² (28 ... 12 AWG)	280/281 Series	412
	Diode and LED Modules	280 Series	416
	Accessories for Rail-Mount Terminal Blocks		420

Rail-Mount Terminal Blocks Classic

279 ... 285 Series

Description and Installation



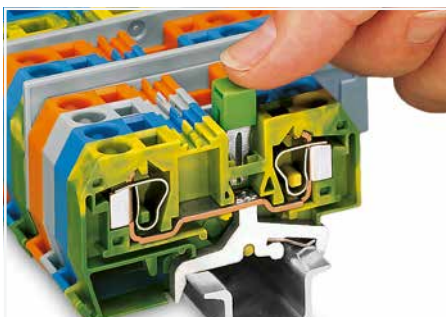
By snapping a ground conductor terminal block onto the DIN-rail, a direct electrical connection is automatically made to the rail.



Quick assembly keys prevent reverse mounting.



Removing a terminal block from the assembly.



Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.



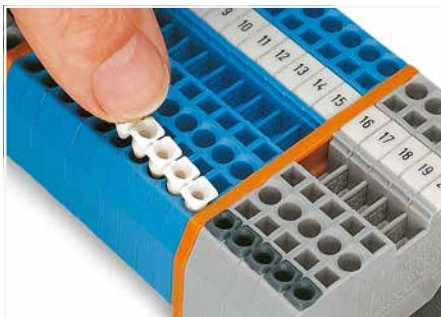
Commoning terminal blocks of different sizes via step-down jumpers.



Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.



Inserting insulation stops.



Protective warning markers inserted into the operating slots



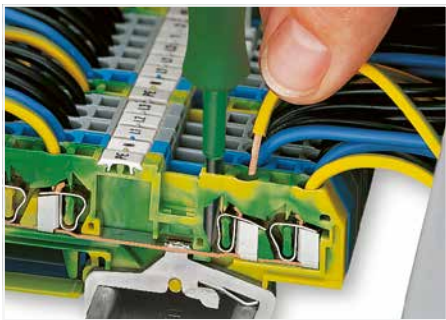
CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st",
also with tinned
single strands



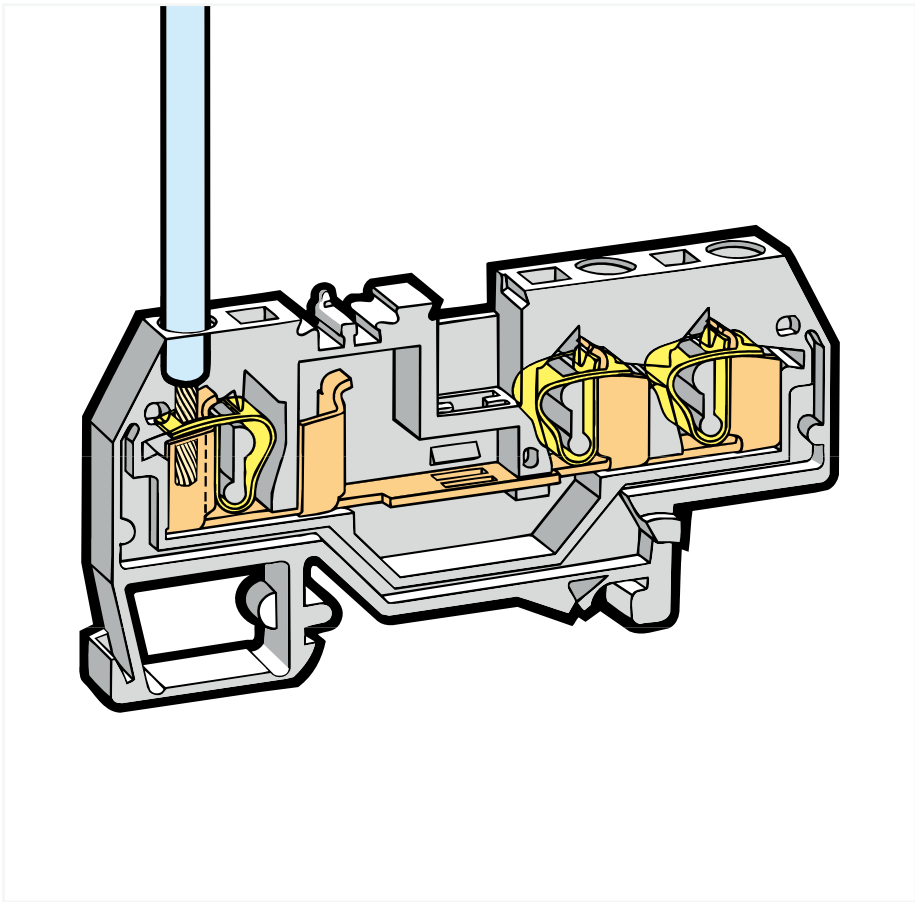
CAGE CLAMP® connection
Inserting a conductor.



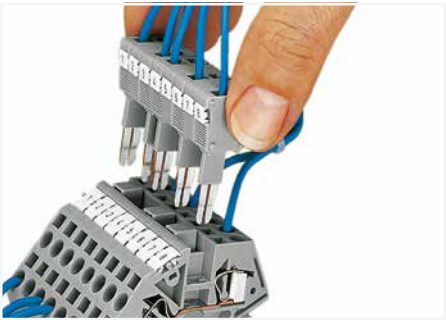
CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.



Testing with a test plug.
(picture shows a test plug fitted with CAGE CLAMP®)



L-type test plug modules fitted with CAGE CLAMP®



B-type test plug modules fitted with CAGE CLAMP®



Labeling via WMB Multi Marking System.



Testing with a test plug.
(picture shows 209-170 Test Plug Adapter)



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block 1.5 mm²; 279 Series

Technical Data

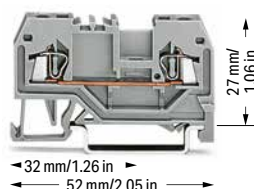
0.08 ... 1.5 mm ²	28 ... 16 AWG
800 V / 8 kV / 3 ①	600 V, 10 A ②
I _N 18 A	600 V, 10 A ③
Terminal block width: 4 mm / 0.157 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data

0.08 ... 1.5 mm ²	28 ... 16 AWG
800 V / 8 kV / 3 ①	600 V, 10 A ②
I _N 18 A	600 V, 10 A ③
Terminal block width: 4 mm / 0.157 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

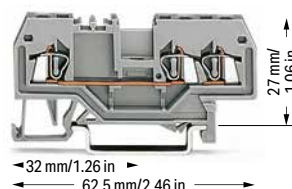
Technical Data

0.08 ... 1.5 mm ²	28 ... 16 AWG
800 V / 8 kV / 3 ①	600 V, 10 A ②
I _N 18 A	600 V, 10 A ③
Terminal block width: 4 mm / 0.157 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



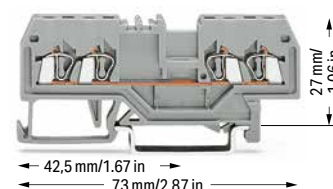
2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-901	100
blue	279-904 ②	100
orange	279-902	100
red	279-903	100
black	279-905	100
yellow	279-906	100
light gray ③	279-992 ③	100



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-681	100
blue	279-684 ②	100
orange	279-682	100
red	279-683	100
black	279-685	100
yellow	279-686	100
light gray ③	279-993 ③	100



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-831	100
blue	279-834 ②	100
orange	279-832	100
red	279-833	100
black	279-835	100
yellow	279-836	100
light gray ③	279-994 ③	100

2-conductor ground terminal block

green-yellow	279-907	100
green-yellow ③	279-907/999-950 ③	100

3-conductor ground terminal block

green-yellow	279-687	100
green-yellow ③	279-687/999-950 ③	100

4-conductor ground terminal block

green-yellow	279-837	100
green-yellow ③	279-837/999-950 ③	100

4-conductor shield terminal block

white	279-838	100
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Other terminal blocks with the same profile:

Diode	279-915/281-410	Page 406
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Other terminal blocks with the same profile:

Diode	279-673/281-410	Page 406
LED	279-674/281-434	Page 406

Other terminal blocks with the same profile:

Diode	279-815/281-410	Page 406
LED	279-809/281-434	Page 406
Double-potential	279-826	Page 313

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-328	100 (25)
gray	279-325	100 (25)
light gray	279-330	100 (25)

Separator; oversized; 2 mm thick

orange	279-329	100 (25)
gray	279-326	100 (25)
light gray	279-331	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-339	100 (25)
gray	279-308	100 (25)
light gray	279-341	100 (25)

Separator; oversized; 2 mm thick

orange	279-340	100 (25)
gray	279-309	100 (25)
light gray	279-342	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
--------	---------	---------

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-346	100 (25)
gray	279-344	100 (25)
light gray	279-348	100 (25)

Separator; oversized; 2 mm thick

orange	279-347	100 (25)
gray	279-345	100 (25)
light gray	279-349	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
--------	---------	---------

Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Accessories; 279 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	279-470	200 (25)
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Insulation stop; 0.25 mm²; 5 pcs/strip

dark gray	279-471	200 (25)
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Adjacent jumper; insulated; I_N 15 A

gray	279-402	200 (25)
yellow-green	279-422	200 (25)

Alternate jumper; insulated; I_N 15 A

gray	279-409	100 (25)
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Technical Data

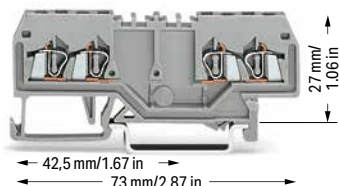
0.08 ... 1.5 mm² | 28 ... 16 AWG

800 V / 8 kV / 3 ① | 600 V, 10 A ②

I_N 18 A | 600 V, 10 A ③

Terminal block width: 4 mm / 0.157 inch

8 ... 9 mm / 0.31 ... 0.35 inch



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	279-826	100
light gray ⑤	279-995 ⑤	100

- 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 1.5 mm² / 24 ... 16 AWG
550 V; 15 A
(see Section 15)

Please observe the application notes:

Insulation stop, page 425
Push-in type wire jumper, page 427
Step-down jumper, page 327
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A



gray	284-414	50 (25)
------	---------	---------

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks



gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	279-482	200 (25)
3-way	279-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	279-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	279-492	200 (25)
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Operating tool; insulated



2-way	279-432	1
3-way	279-433	1

Operating tool; insulated



10-way	279-440	1
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Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

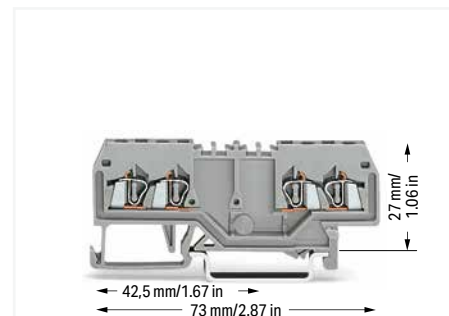


gray	209-170	50 (25)
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Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks



gray	280-404	100 (25)
------	---------	----------



Notice: These double-potential terminal blocks cannot be commoned via adjacent jumpers!

Front-entry double-potential terminal blocks are space savers.

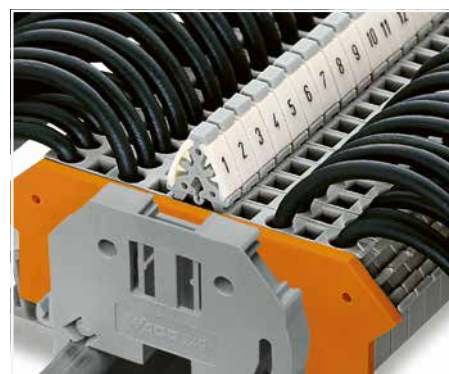
Two independent feedthrough circuits are placed in one insulated housing on one level in just 4 mm. This achieves a width of just 2 mm versus standard through terminal blocks.

Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

For technical data and accessories,
see www.wago.com



Marking directly on the terminal block via WMB markers.



Terminal block marking with double marker carriers (209-128)

Terminal blocks with side marking
(see online catalog at www.wago.com)

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-346	100 (25)
gray	279-344	100 (25)
light gray	279-348	100 (25)

Separator; oversized; 2 mm thick

orange	279-347	100 (25)
gray	279-345	100 (25)
light gray	279-349	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	279-415	100 (25)
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Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block 2.5 mm²; 280 Series

Technical Data

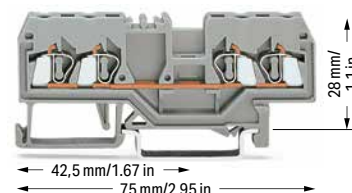
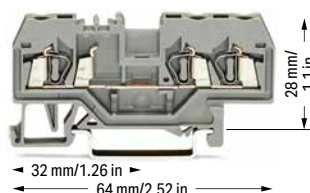
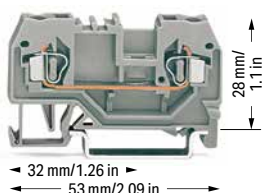
0.08 ... 2.5 mm ²	28 ... 12 AWG*
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 24 A	600 V, 25 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 24 A	600 V, 15 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 20 A	600 V, 25 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-901	100
blue	280-904 ②	100
orange	280-902	100
red	280-903	100
black	280-905	100
yellow	280-906	100
light gray ⑤	280-992 ③	100

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-681	100
blue	280-684 ②	100
orange	280-650	100
red	280-653	100
black	280-671	100
yellow	280-672	100
light gray ⑤	280-993 ③	100

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-833	100
blue	280-834 ②	100
orange	280-835	100
red	280-830	100
black	280-831	100
yellow	280-832	100
light gray ⑤	280-994 ③	100

2-conductor ground terminal block

green-yellow	280-907	100
green-yellow ⑤	280-907/999-950 ③	100

3-conductor ground terminal block

green-yellow	280-687	100
green-yellow ⑤	280-687/999-950 ③	100

4-conductor ground terminal block

green-yellow	280-837	100
green-yellow ⑤	280-837/999-950 ③	100

4-conductor shield terminal block

white	280-838	100
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Other terminal blocks with the same profile:

Diode	280-915/281-410	Page 408
Disconnect	280-912	Page 354
Carrier	280-916	Page 380

Other terminal blocks with the same profile:

Diode	280-673/281-410	Page 408
Disconnect	280-683	Page 354
Carrier	280-610	Page 380

Other terminal blocks with the same profile:

Diode	280-815/281-410	Page 408
LED	280-809/281-434	Page 408
Disconnect	280-836	Page 354
Disc./test	280-829	Page 354
Carrier	280-816	Page 380
Double-potential	280-826	Page 315

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)
light gray	280-356	100 (25)

Separator; oversized; 2 mm thick

orange	280-311	100 (25)
gray	280-310	100 (25)
light gray	280-357	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Spacer with same profile; for 2-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-902/056-000	100 (25)
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Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-326	100 (25)
gray	280-324	100 (25)
light gray	280-358	100 (25)

Separator; oversized; 2 mm thick

orange	280-346	100 (25)
gray	280-344	100 (25)
light gray	280-359	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
--------	---------	---------

Spacer with same profile; for 3-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-650/056-000	100 (25)
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Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
--------	---------	---------

Spacer with same profile; for 4-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-835/056-000	100 (25)
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Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Technical Data

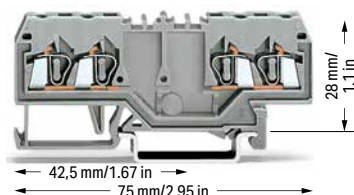
0.08 ... 2.5 mm² | 28 ... 12 AWG*

800 V / 8 kV / 3 ① | 600 V, 20 A ②

I_N 24 A | 600 V, 25 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	280-826	100
light gray ③	280-995 ④	100

Notice: These double-potential terminal blocks cannot be commoned via adjacent jumpers!

Front-entry double-potential terminal blocks are space savers.

Two independent feedthrough circuits are placed in one insulated housing on one level in just 5 mm. This achieves a width of just 2.5 mm versus standard through terminal blocks.

Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

For technical data and accessories, see www.wago.com

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

* 12 AWG: THHN, THWN

- 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 2.5 mm²/24 ... 12 AWG*
550 V
23 A, for 2-conductor terminal blocks
22 A, for 3-conductor terminal blocks
20 A, for 4-conductor terminal blocks
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:

Insulation stop, page 425

Jumpers, from page 426

Step-down jumper, page 327

Comb-style jumper bar, page 426

Testing accessories, from page 420

Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:

WMB/WMB Inline/WFB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
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Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block

gray	280-409	100 (25)
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Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Accessories; 280 Series

Appropriate marking systems:

WMB/WMB Inline/WFB

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)
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Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks

gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)
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Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1
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Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)
------	---------	----------

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)
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Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

gray	280-404	100 (25)
------	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²

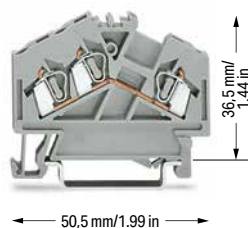
I _N 24 A	281-407	100 (25)
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Through/Ground Conductor/Shield Conductor and Ex Terminal Block

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 24 A	
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-641	100
blue	280-651 ②	100
orange	280-654	100
light gray ③	280-998 ③	100

3-conductor ground terminal block

green-yellow	280-637	100
green-yellow ③	280-637/999-950 ③	100

3-conductor shield terminal block

white	280-640	100
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Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

 orange	280-313	100 (25)
 gray	280-312	100 (25)
 light gray	280-354	100 (25)

Separator; oversized; 2 mm thick

 orange	280-318	100 (25)
 gray	280-348	100 (25)
 light gray	280-355	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

 120 mm	209-191	50 (25)
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Spacer with same profile; for 3- and 4-conductor terminal blocks (angled type); 5 mm thick

 orange	280-654/056-000	100 (25)
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Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

 white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

 light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

 dark gray	280-472	200 (25)
--	---------	----------

* 12 AWG: THHN, THWN

- 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 2.5 mm² / 24 ... 12 AWG*
550 V; 23 A
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.
- Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N = I_N terminal block

 gray	280-402	200 (25)
 yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

 gray	280-409	100 (25)
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Staggered jumper; insulated; 5 mm wide; I_N 24 A

 1 to 2	780-452	100 (25)
 1 to 3	780-453	100 (25)
 1 to 4	780-454	100 (25)
 1 to 5	780-455	50 (25)
 1 to 6	780-456	50 (25)
 1 to 7	780-457	50 (25)
 1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

 L = 60 mm	249-125	100 (10)
 L = 110 mm	249-126	100 (10)
 L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

 2-way	280-482	200 (25)
 3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

 10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

 2-way	280-492	200 (25)
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Operating tool; insulated

 2-way	280-432	1
 3-way	280-433	1
 10-way	280-440	1

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

 yellow	280-415	100 (25)
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Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide

 gray	280-418	100 (25)
--	---------	----------

Spacer module; snaps together; 5 mm wide

 gray	280-419	100 (25)
--	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

 gray	209-170	50 (25)
--	---------	---------

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

 gray	280-404	100 (25)
--	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²

 I _N 24 A	281-407	100 (25)
---	---------	----------

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable

 white	2009-115	1
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WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

 plain	793-5501	5
---	----------	---

Through and Ex Terminal Block 2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 24 A	600 V, 25 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



50.5 mm / 1.99 in

4-conductor through terminal block

Notice: These terminal blocks cannot be commoned using adjacent jumpers.

Color	Item No.	Pack. Unit
gray	280-646	100
blue	280-656 ②	100
orange	280-946	100
light gray ③	280-996 ③	100

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-313	100 (25)
gray	280-312	100 (25)
light gray	280-354	100 (25)

Separator; oversized; 2 mm thick

orange	280-318	100 (25)
gray	280-348	100 (25)
light gray	280-355	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
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Spacer with same profile; for 3- and 4-conductor terminal blocks (angled type); 5 mm thick

orange	280-654/056-000	100 (25)
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Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
-----------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)
--------	---------	----------

* 12 AWG: THHN, THWN

- 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree (see Section 15)
- Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 2.5 mm² / 24 ... 12 AWG*
550 V; 23 A (see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)
-------	---------	----------

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1
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Test plug module; snaps together; 5 mm wide

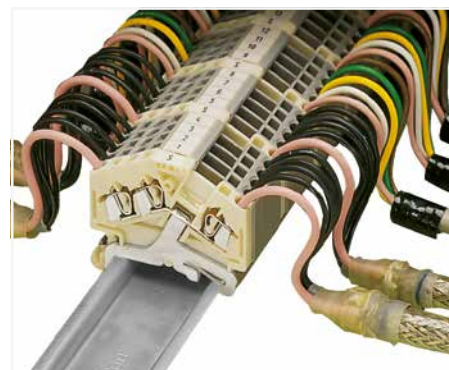
gray	249-141	100 (25)
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WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable

white	2009-115	1
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WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

plain	793-5501	5
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Application example for shield conductor terminal blocks

Shielded control cables are becoming an increasingly common solution to external signal interference. Front-entry shield conductor terminal blocks are ideal for connecting braided cables. Like front-entry ground conductor terminal blocks, they are equipped with a grounding foot for direct electrical connection to the rail, however they differ significantly by their white insulated housing. Shield conductor terminal blocks for front-entry wiring can be directly mounted beside signal-conductor terminal blocks, providing excellent deflection of interfering signals.

Through/Ground Conductor/Shield Conductor and Ex Terminal Block 4 mm²; 281 Series

Technical Data

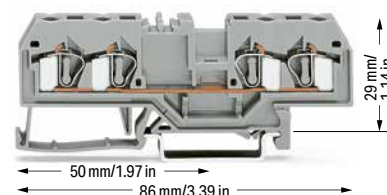
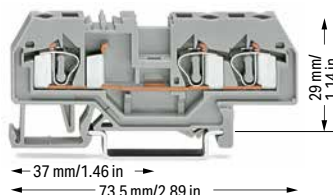
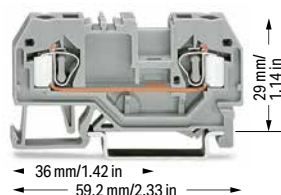
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 32 A	600 V, 25 A ③
Terminal block width: 6 mm / 0.236 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 32 A	600 V, 25 A ③
Terminal block width: 6 mm / 0.236 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 26 A	600 V, 25 A ③
Terminal block width: 6 mm / 0.236 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-901	50
blue	281-904 ②	50
orange	281-902	50
red	281-903	50
black	281-905	50
yellow	281-906	50
light gray ③	281-992 ③	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-681	50
blue	281-684 ②	50
orange	281-678	50
red	281-679	50
black	281-685	50
yellow	281-686	50
light gray ③	281-993 ③	50

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-652	50
blue	281-654 ②	50
orange	281-653	50
red	281-663	50
black	281-664	50
yellow	281-668	50
light gray ③	281-994 ③	50

2-conductor ground terminal block

green-yellow	281-907	50
green-yellow ③	281-907/999-950 ③	50

3-conductor ground terminal block

green-yellow	281-687	50
green-yellow ③	281-687/999-950 ③	50

4-conductor ground terminal block

green-yellow	281-657	50
green-yellow ③	281-657/999-950 ③	50

Other terminal blocks with the same profile:

Diode	281-915/281-410	Page 410
Disconnect	281-912	Page 356
Carrier	281-916	Page 378

Other terminal blocks with the same profile:

Diode	281-673/281-410	Page 410
Disconnect	281-683	Page 356
Carrier	281-610	Page 378

Other terminal blocks with the same profile:

Diode	281-665/281-410	Page 410
Disconnect	281-659	Page 356
Disc./test	281-666	Page 356
Carrier	281-656	Page 378

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-329	100 (25)
gray	281-328	100 (25)
light gray	281-349	100 (25)

Separator; oversized; 2 mm thick

orange	281-331	100 (25)
gray	281-330	100 (25)
light gray	281-350	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-326	100 (25)
gray	281-324	100 (25)
light gray	281-355	100 (25)

Separator; oversized; 2 mm thick

orange	281-346	100 (25)
gray	281-344	100 (25)
light gray	281-356	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
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Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-335	100 (25)
gray	281-334	100 (25)
light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

orange	281-339	100 (25)
gray	281-338	100 (25)
light gray	281-347	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
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Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Accessories; 281 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)
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Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)
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Technical Data

0.08 ... 4 mm² | 28 ... 12 AWG

800 V / 8 kV / 3 ① | 600 V, 20 A ②

I_N 32 A | 600 V, 25 A ③

Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch



61,5 mm / 2.42 in

37 mm / 1.46 in

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-631	100
blue	281-651 ②	100
light gray ③	281-998 ③	100

3-conductor ground terminal block

green-yellow	281-637	100
green-yellow ③	281-637/999-950 ③	100

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-313	100 (25)
gray	281-312	100 (25)
light gray	281-357	100 (25)

Separator; oversized; 2 mm thick

orange	281-318	100 (25)
gray	281-348	100 (25)
light gray	281-358	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	281-415	100 (25)
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- 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 4 mm² / 24 ... 12 AWG
550 V; 30 A
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:

Insulation stop, page 425

Jumpers, from page 426

Comb-style jumper bar, page 426

Testing accessories, from page 420

Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:

WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block

gray	281-409	100 (25)
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Staggered jumper; insulated; 6 mm wide; I_N 32 A

1 to 2	781-452	100 (25)
1 to 3	781-453	100 (25)
1 to 4	781-454	100 (25)
1 to 5	781-455	50 (25)
1 to 6	781-456	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)
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Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks

gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)
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Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Accessories; 281 Series

Appropriate marking systems:

WMB/WMB Inline/WFB

Test plug module; snaps together; 6 mm wide

gray	281-418	100 (25)
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Spacer module; snaps together; 6 mm wide

gray	281-419	100 (25)
------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

gray	280-404	100 (25)
------	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²

I _N 24 A	281-407	100 (25)
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WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable

white	2009-115	1
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WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

plain	793-5501	5
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Through/Ground Conductor and Ex Terminal Block

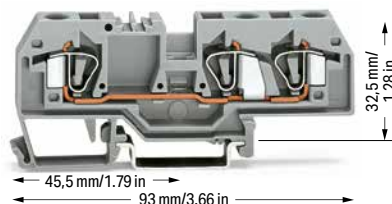
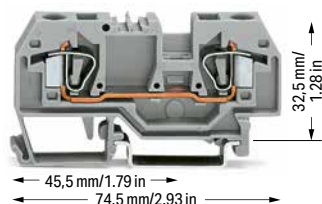
6 mm²; 282 Series

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
800 V / 8 kV / 3 ①	600 V, 30 A ②
I _N 41 A	600 V, 40 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
800 V / 8 kV / 3 ①	600 V, 30 A ②
I _N 41 A	600 V, 40 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	282-901	50
blue	282-904 ②	50
orange	282-902	50
red	282-903	50
black	282-905	50
yellow	282-906	50
light gray ⑤	282-992 ③	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	282-681	25
blue	282-684 ②	25
orange	282-682	25
light gray ⑤	282-993 ③	50

2-conductor ground terminal block

green-yellow	282-907	50
green-yellow ⑤	282-907/999-950 ③	50

3-conductor ground terminal block

green-yellow	282-687	25
green-yellow ⑤	282-687/999-950 ③	25

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	282-328	100 (25)
gray	282-325	100 (25)
light gray	282-330	100 (25)

Separator; oversized; 2 mm thick

orange	282-329	100 (25)
gray	282-326	100 (25)
light gray	282-331	100 (25)

Step-down cover plate; 1 mm thick

gray	282-357	100 (25)
orange	282-367	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	282-339	100 (25)
gray	282-308	100 (25)
light gray	282-341	100 (25)

Separator; oversized; 2 mm thick

orange	282-340	100 (25)
gray	282-309	100 (25)
light gray	282-342	100 (25)

Step-down cover plate; 1 mm thick

gray	282-358	100 (25)
orange	282-368	100 (25)

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)
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Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)
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Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)
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Step-down jumper; insulated; commons 10/6 mm²

(8/10 AWG) down to 4/2.5/1.5 mm ² (12/14/16 AWG); I _N 15 A	gray	284-414	50 (25)
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Step-down jumper; insulated; commons 10/6 mm²

(8/10 AWG) down to 6/4 mm ² (10/12 AWG); I _N 30 A	gray	284-413	50 (25)
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Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

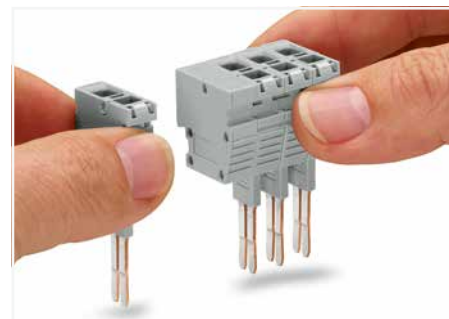
B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)
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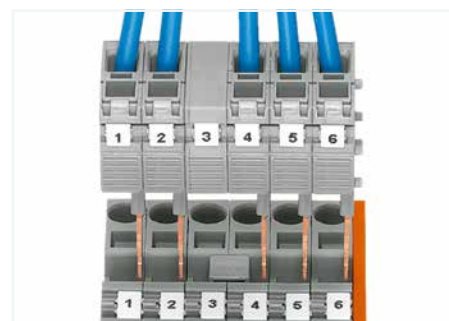
- ① 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- ② Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- ③ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 ... 6 mm² / 20 ... 10 AWG
550 V; 39 A
35 A jumper
(see Section 15)

Please observe the application notes:
Step-down jumper, page 327
Test plug module, page 423
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Snapping test plug and spacer modules together to assemble a multi-pole test plug module (max. 10 poles) for 8 mm terminal block width.



The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 282 Series).

Through/Ground Conductor and Ex Terminal Block 10 mm²; 284 Series

Technical Data

0.2 ... 10 mm ²	24 ... 8 AWG
800 V / 8 kV / 3 ①	600 V, 50 A ②
I _N 57 A	600 V, 54 A ③
Terminal block width: 10 mm / 0.394 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	

Technical Data

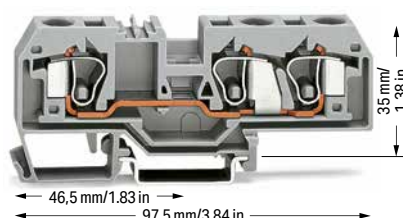
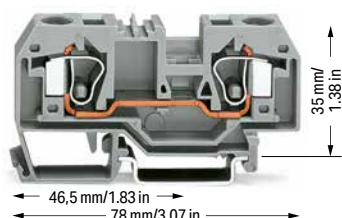
0.2 ... 10 mm ²	24 ... 8 AWG
800 V / 8 kV / 3 ①	600 V, 50 A ②
I _N 57 A	600 V, 54 A ③
Terminal block width: 10 mm / 0.394 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	

- ① 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

- ② Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 ... 10 mm² / 20 ... 8 AWG
550 V; 53 A
(see Section 15)

Please observe the application notes:
Step-down jumper, page 327
Test plug module, page 423
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	284-901	25
blue	284-904	25
orange	284-902	25
red	284-903	25
black	284-905	25
yellow	284-906	25
light gray ⑤	284-992 ②	25

2-conductor ground terminal block

green-yellow	284-907	25
green-yellow ⑤	284-907/999-950 ②	25

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	284-328	100 (25)
gray	284-325	100 (25)
light gray	284-330	100 (25)

Separator; oversized; 2 mm thick

orange	284-329	100 (25)
gray	284-326	100 (25)
light gray	284-331	100 (25)

Step-down cover plate; 1 mm thick

gray	284-357	100 (25)
orange	284-367	100 (25)

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	284-681	25
blue	284-684	25
orange	284-682	25
light gray ⑤	284-993 ②	25

3-conductor ground terminal block

green-yellow	284-687	25
green-yellow ⑤	284-687/999-950 ②	25

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	284-339	100 (25)
gray	284-308	100 (25)
light gray	284-341	100 (25)

Separator; oversized; 2 mm thick

orange	284-340	100 (25)
gray	284-309	100 (25)
light gray	284-342	100 (25)

Step-down cover plate; 1 mm thick

gray	284-358	100 (25)
orange	284-368	100 (25)

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	284-415	50 (25)
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Finger guard; touch-proof cover protects unused conductor entries

yellow	284-400	100 (25)
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Adjacent jumper; insulated; I_N 57 A

gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A

gray	284-409	50 (25)
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Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)
------	---------	---------

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)
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Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

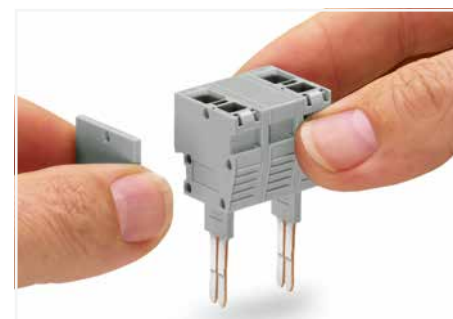
gray	209-170	50 (25)
------	---------	---------

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)
------	---------	----------

B-type spacer plate; snaps together; 2 mm wide

gray	709-312	100 (25)
------	---------	----------



Snapping test plug and spacer modules (each with a spacer plate) together to assemble a multi-pole test plug module (max. 10 poles) for 10 mm terminal block width.



The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 284 Series).



Finger guard seals an unused conductor entry.

Through/Ground Conductor and Ex Terminal Block 16 mm²; 283 Series

Technical Data

0.2 ... 16 mm² | 24 ... 6 AWG

800 V / 8 kV / 3 ① | 600 V, 65 A ②

I_N 76 A | 600 V, 70 A ③

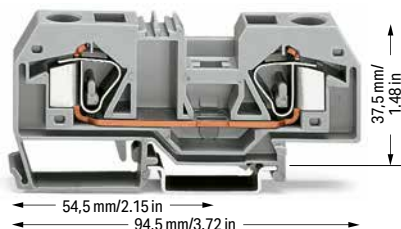
Terminal block width: 12 mm / 0.472 inch

16 ... 17 mm / 0.63 ... 0.67 inch

- ① 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- ② Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 ... 16 mm² / 20 ... 6 AWG
550 V; 68 A
63 A jumper
(see Section 15)

Please observe the application notes:
Step-down jumper, page 327
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	283-901	20
blue	283-904	20
orange	283-902	20
red	283-903	20
black	283-905	20
yellow	283-906	20
light gray ②	283-992 ②	20

2-conductor ground terminal block

green-yellow	283-907	20
green-yellow ②	283-907/999-950 ②	20

Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	283-328	50 (25)
gray	283-325	50 (25)
light gray	283-330	50 (25)

Separator; oversized; 2 mm thick

orange	283-329	50 (25)
gray	283-326	50 (25)
light gray	283-331	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	283-415	50 (25)
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Finger guard; touch-proof cover protects unused conductor entries

yellow	283-400	100 (25)
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Adjacent jumper; insulated; I_N 70 A

gray	283-402	50 (25)
yellow-green	283-422	50 (25)

Alternate jumper; insulated; I_N 76 A

gray	283-409	50 (25)
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Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A

gray	283-414	50 (25)
------	---------	---------

Step-down cover plate; 1 mm thick

gray	283-357	100 (25)
orange	283-367	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	283-404	25
------	---------	----

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray	283-407	25
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The markers are not covered by the wiring when marking terminal blocks in center position.

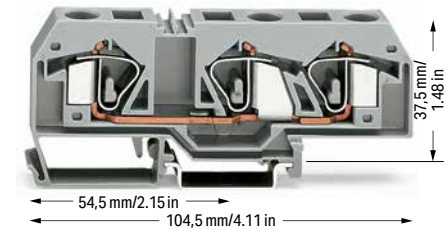


Always push voltage tap (283-407) down into the terminal block until fully inserted!

Through/Ground Conductor and Ex Terminal Block

16 mm²; 283 Series

Technical Data	
0.2 ... 16 mm²	24 ... 6 AWG
800 V / 8 kV / 3 ❶	600 V, 65 A ❷
I _N 76 A	600 V, 70 A ❸
Terminal block width: 12 mm / 0.472 inch	
16 ... 17 mm / 0.63 ... 0.67 inch	



3-conductor through terminal block		
Notice: This terminal block cannot be commoned with adjacent jumpers.		
Color	Item No.	Pack. Unit
gray	283-671	20
blue	283-674	20
orange	283-672	20
light gray ❸	283-998 ❷	20

3-conductor ground terminal block		
Notice: This terminal block cannot be commoned with adjacent jumpers.		
green-yellow	283-677	20
green-yellow ❸	283-677/999-950 ❷	20

Accessories; 283 Series	
Appropriate marking systems: WMB/WMB Inline/WFB	

End and intermediate plate; 2.5 mm thick			
	orange	283-352	50 (25)
	gray	283-350	50 (25)
	light gray	283-354	50 (25)

Separator; oversized; 2 mm thick			
	orange	283-353	50 (25)
	gray	283-351	50 (25)
	light gray	283-355	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	283-415	50 (25)

Finger guard; touch-proof cover protects unused conductor entries			
	yellow	283-400	100 (25)

- ❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- ❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 ... 16 mm² / 20 ... 6 AWG
550 V; 68 A
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

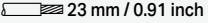


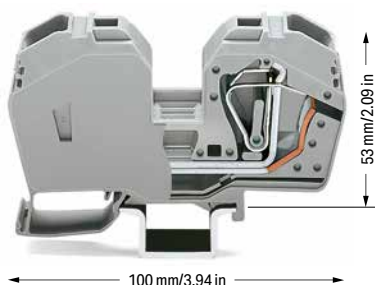
Finger guard seals an unused conductor entry.

Through/Ground Conductor and Ex Terminal Block

35 mm²; 285 Series

Technical Data

6 ... 35 mm ²	10 ... 2 AWG
1000 V / 8 kV / 3 ①	600 V, 115 A 
I _N 125 A	600 V, 120 A 
Terminal block width: 16 mm / 0.63 inch	
 23 mm / 0.91 inch	



- 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
6 ... 35 mm² / 8 ... 2 AWG
880 V; 85 A
6 ... 25 mm² / 8 ... 4 AWG
for ground conductor terminal blocks
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Terminating a 35 mm² (2 AWG) conductor –

2-conductor through terminal block; with integrated end plate; only for DIN 35 x 15 rail

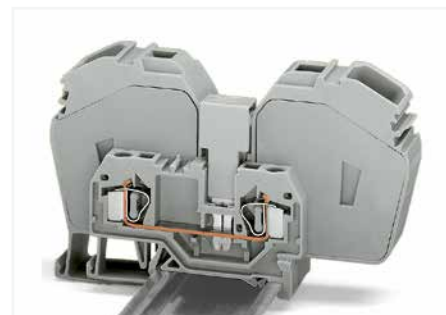
Color	Item No.	Pack. Unit
 gray	285-635	15
 blue	285-634	15
 red	285-633	15
 black	285-639	15
 yellow	285-636	15
 light gray 	285-992 ②	15

2-conductor ground terminal block; with integrated end plate; only for DIN 35 x 15 rail

 green-yellow	285-637	15
 green-yellow 	285-637/999-950 ②	15



Protective warning markers inserted into the operating slots



Commoning a 285 Series terminal block (35 mm² / 2 AWG) with a 281 Series terminal block (4 mm² / 12 AWG) using a step-down jumper (283-414).

Accessories; 285 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N 85 A

	gray	285-435	50 (25)
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Step-down jumper; insulated; I_N 90 A

	gray	285-430	50 (25)
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Protective warning marker; with a black high-voltage symbol

	yellow	285-416	100 (25)
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Finger guard; touch-proof cover protects unused conductor entries

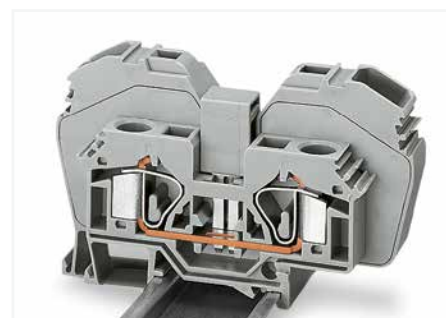
	yellow	285-401	100 (25)
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Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

	gray	283-407	25
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Finger guard seals an unused conductor entry.



The following 285 Series Through Terminal Blocks can be commoned with 283 Series Through Terminal Blocks: 285-635 or 285-634 with 283-601 or 283-604 (terminal blocks with side marking, visit www.wago.com)
Adjacent jumper required: 285-435

Please note that the nominal current of the adjacent jumper must not exceed 63 A.

Distribution Terminal Block; 3 x 10 mm² CAGE CLAMP® Connection and 1 x 35 mm² Screw Clamp Connection

284 Series

Technical Data

0.2 ... 10 mm² ❶ | 24 ... 8 AWG6 ... 35 mm² ❷ | 10 ... 2 AWG

800 V / 8 kV / 3 ❸

I_N 125 A

Terminal block width: 17.5 mm / 0.689 inch

12 ... 14 mm / 0.47 ... 0.55 inch

❶ CAGE CLAMP® connection

❷ Screw-type connection

❸ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

❹ Individual arrangement: 125 A
Two jumpers combined in one clamping unit: 100 A

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



89 mm/3.5 in

39.5 mm/
1.56 in

Distribution terminal block; with 3 x CAGE CLAMP® connection (10 mm²/8 AWG); 1 x screw clamp connection (35 mm²/2 AWG) and 3.5 Nm screw torque

Color	Item No.	Pack. Unit
gray	284-621	15
blue	284-624	15

Accessories; distribution terminal block

Appropriate marking system:
WMB

Adjacent jumper; insulated; I_N 125 A; for 1 jumper;
I_N 100 A; for 2 jumpers



gray

284-412 ❹

100 (25)



Terminating a 35 mm² (2 AWG) conductor – screw clamp connection, side-entry wiring

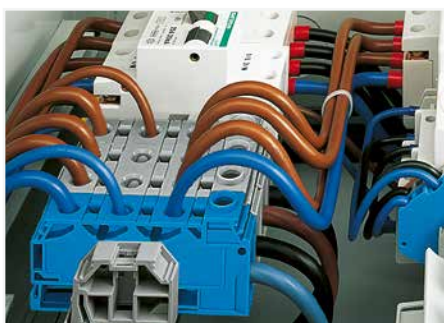


Terminating a 10 mm² (8 AWG) conductor – CAGE CLAMP® connection, front-entry wiring.



Commoning with comb-style jumper bar.

6



Side-entry distribution terminal block with screw clamp connection (35 mm²/2 AWG) and front-entry CAGE CLAMP® connection (3 x 10 mm²/8 AWG) snaps onto
This terminal block snaps onto DIN-35 rail – it is enclosed on both sides and requires no end or intermediate plate.

When connecting 3 x 10 mm² (8 AWG) conductors on the distribution side, make sure that the nominal current of 125 A is not exceeded.

Step-Down Jumpers; for Front-Entry Through Terminal Blocks up to 16 mm² Installation



Step-down jumper from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG)
I_N 15 A, Item No. 284-414



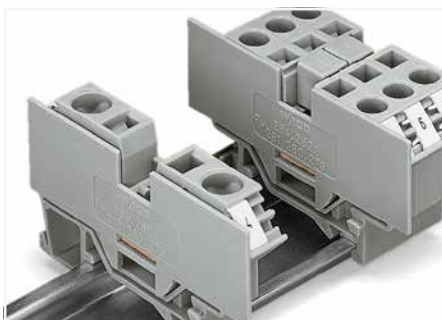
Step-down jumper from 10/6 mm² (8/10 AWG) to 6/4 mm² (10/12 AWG)
I_N 30 A, Item No. 284-413



Step-down jumper from 16 mm² (6 AWG) to 4 mm² (12 AWG)
I_N 32 A, Item No. 283-414



Snapping a cover plate onto open side of terminal block.



A cover plate must also be snapped onto the other side of the larger terminal block.



Commoning terminal blocks of different sizes – step down. Push down the step-down jumper until fully inserted.

Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

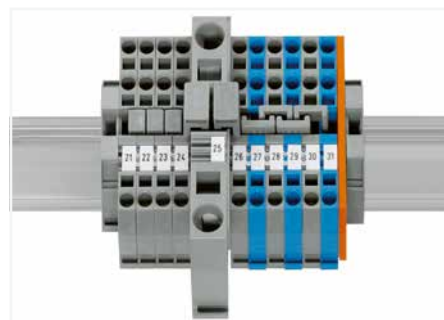
Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross section may be commoned using adjacent jumpers.

In this case, pay attention that:

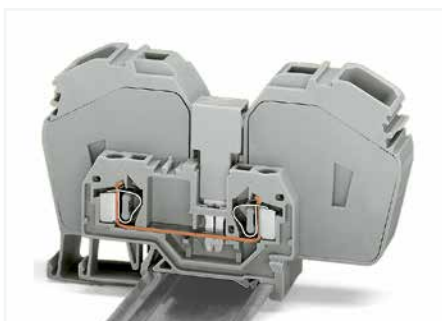
- The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.
- The standard or special thin cover plate is installed on the open side of the larger block.



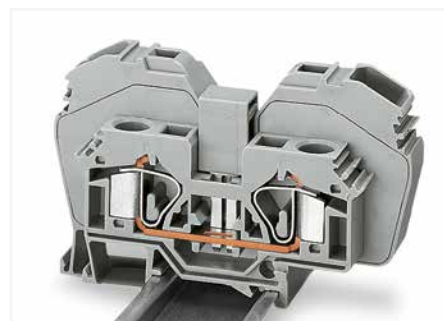
Note: Jumpers are marked with suitable terminal block sizes for correct installation.



Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Commoning a 285 Series terminal block (35 mm²/ 2 AWG) with a 281 Series terminal block (4 mm²/ 12 AWG) using a step-down jumper (283-414).



The following 285 Series Through Terminal Blocks can be commoned with 283 Series Through Terminal Blocks: 285-635 or 285-634 with 283-601 or 283-604 (terminal blocks with side marking, visit www.wago.com)
Adjacent jumper required: 285-435

Please note that the nominal current of the adjacent jumper must not exceed 63 A.

Assembly Examples

Step-Down Jumpers; for Front-Entry Through Terminal Blocks

Terminal blocks with side marking, visit www.wago.com



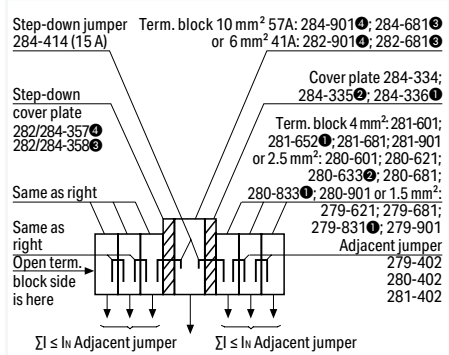
Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.



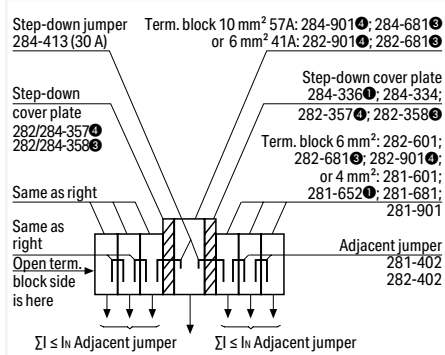
Commoning from 10 mm²/8 AWG (284 Series) to 6 mm²/10 AWG (282 Series) rail-mount terminal blocks via step-down jumpers.



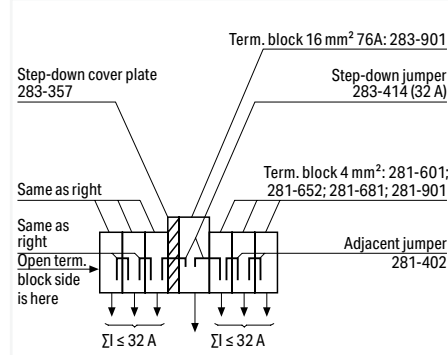
Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 6 mm² (10 AWG) rail-mount terminal blocks via step-down jumper (284-413).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

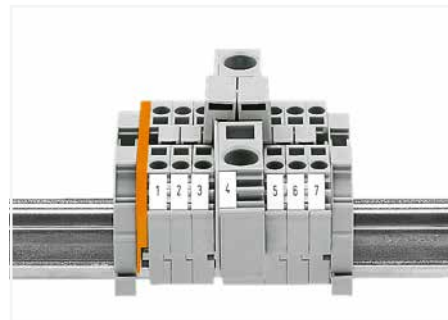
6



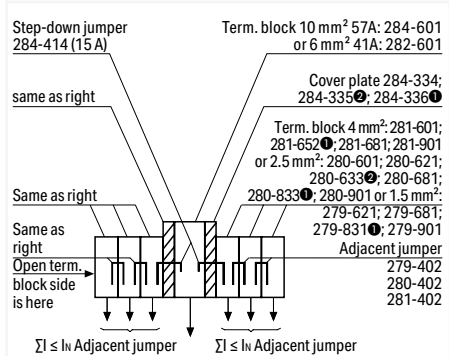
Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.



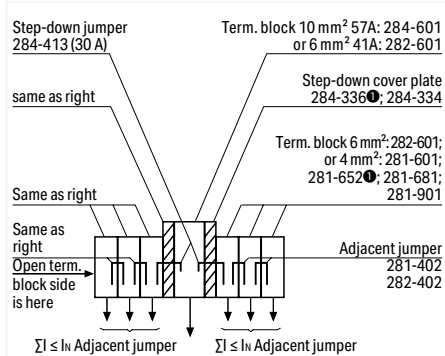
Commoning from 10 mm²/8 AWG (284 Series) to 6 mm²/10 AWG (282 Series) rail-mount terminal blocks via step-down jumpers.



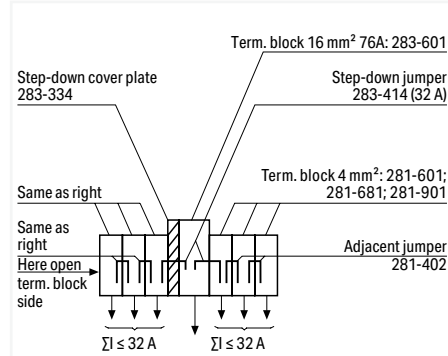
Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 6 mm² (10 AWG) rail-mount terminal blocks via step-down jumper (284-413).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

Double-Deck Terminal Block

1.5 mm²; 279 Series

Technical Data

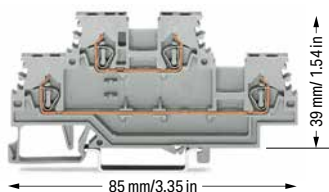
0.08 ... 1.5 mm ²	28 ... 16 AWG
500 V / 6 kV / 3 ①	300 V, 10 A ②
I _N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data

0.08 ... 1.5 mm ²	28 ... 16 AWG
500 V / 6 kV / 3 ①	300 V, 10 A ②
I _N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

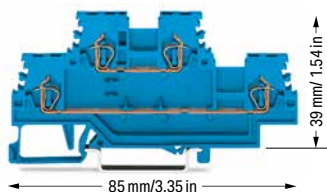
Technical Data

0.08 ... 1.5 mm ²	28 ... 16 AWG
500 V / 6 kV / 3 ①	
I _N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; through/through terminal block; gray

	Item No.	Pack. Unit
○ L/L	279-501	50
○ N/L	279-512	50
○ L/N	279-513	50



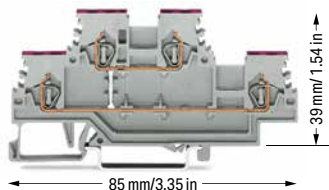
Double-deck terminal block; through/through terminal block; blue

	Item No.	Pack. Unit
● N/N	279-504 ②	50



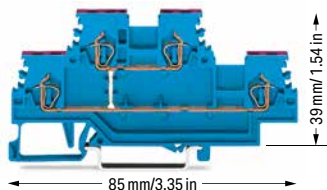
Double-deck terminal block; ground conductor/through terminal block; gray

	Item No.	Pack. Unit
○ PE/N	279-517	50
○ PE/L	279-527	50



Double-deck terminal block; 4-conductor through terminal block; internally commoned; violet conductor entry; gray

	Item No.	Pack. Unit
○ L	279-508	50



Double-deck terminal block; 4-conductor through terminal block; internally commoned; violet conductor entry; blue

	Item No.	Pack. Unit
● N	279-509 ②	50



Double-deck terminal block; 4-conductor ground terminal block; internally commoned; green-yellow

	Item No.	Pack. Unit
● PE	279-507	50

- ❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

- ❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2 mm thick



orange	279-519	200 (25)
gray	279-518	

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	279-470	200 (25)
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Insulation stop; 0.25 mm²; 5 pcs/strip



dark gray	279-471	200 (25)
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Protective warning marker; with black high-voltage symbol; for 5 terminal blocks



yellow	279-415	100 (25)
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Adjacent jumper; insulated; I_N 15 A



gray	279-402	200 (25)
yellow-green	279-422	200 (25)

Alternate jumper; insulated; I_N 15 A



gray	279-409	100 (25)
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Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	279-482	200 (25)
3-way	279-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block



10-way	279-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	279-492	200 (25)
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Operating tool; insulated



2-way	279-432	1
3-way	279-433	1

Operating tool; insulated



10-way	279-440	1
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Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/Marking Strips

Double-deck marker carrier



gray	279-529	50 (25)
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WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; stretchable 4 ... 4.2 mm

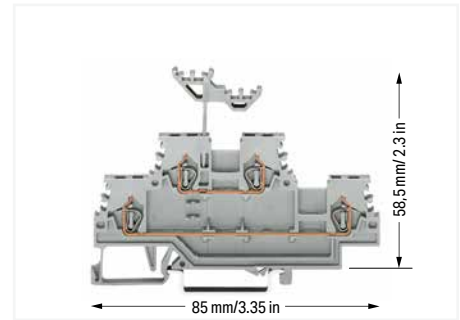


white	2009-114	1
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WMB marking card; white; 10 strips with 10 markers/card; stretchable 4 ... 4.2 mm



plain	793-4501	5
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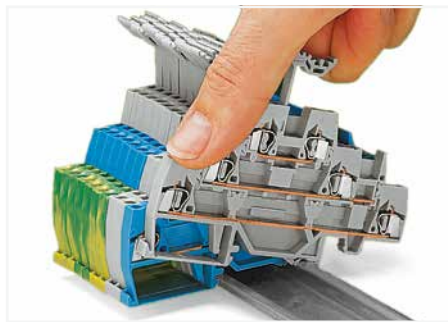


Double-deck marker carrier
(height including marker carrier)

Double- and Triple-Deck Terminal Blocks

280 and 281 Series

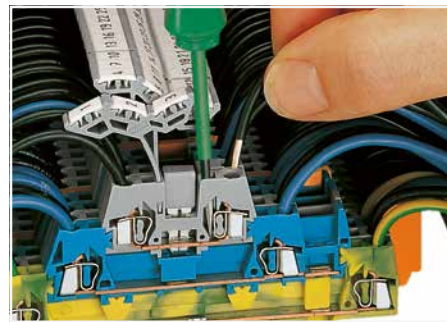
Description and Installation



Snapping a terminal block onto the DIN-rail.



Removing a terminal block from the assembly.



CAGE CLAMP® connection

Inserting a conductor.

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

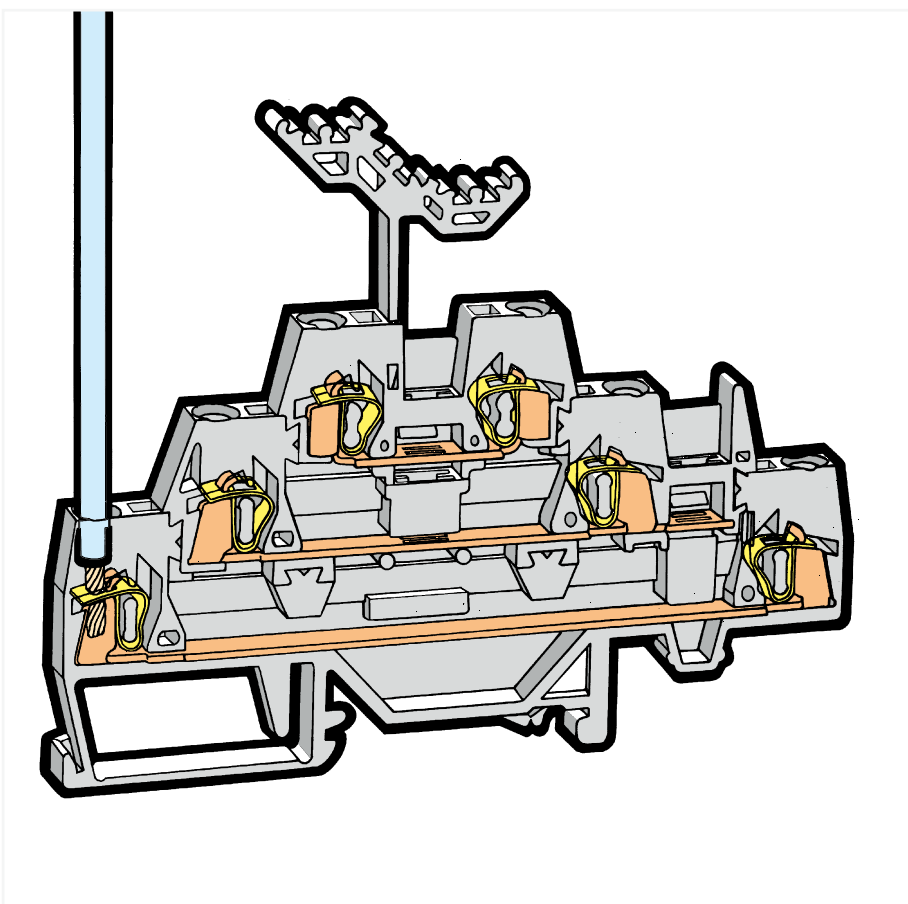
6



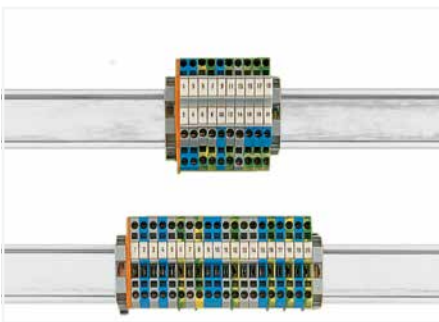
Commoning using an adjacent jumper (280-402). push jumpers down until fully inserted.



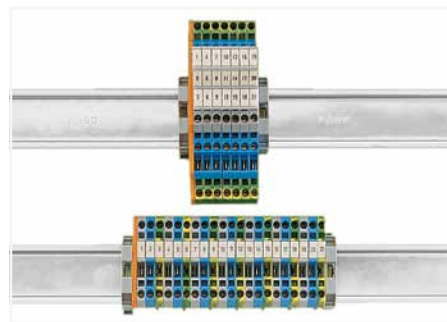
Combining vertical and adjacent jumpers.



Labeling via WMB Multi Marking System.



Use 50 % less rail space with double-deck terminal blocks.



Use 67 % less rail space with triple-deck terminal blocks.



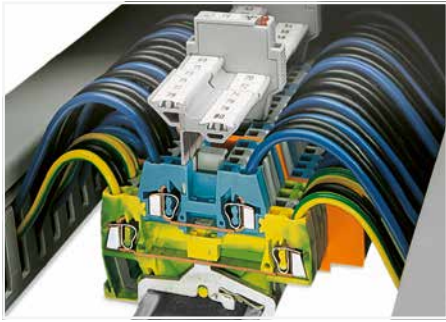
CAGE CLAMP® terminates the following copper conductors:
solid "s"



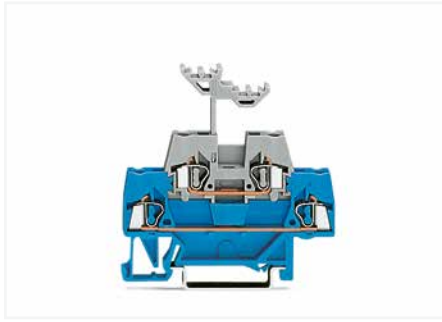
stranded "st"



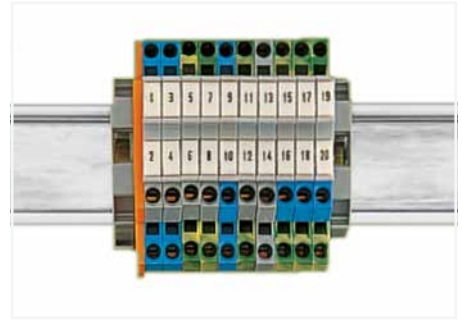
fine-stranded "f-st",
also with tinned
single strands



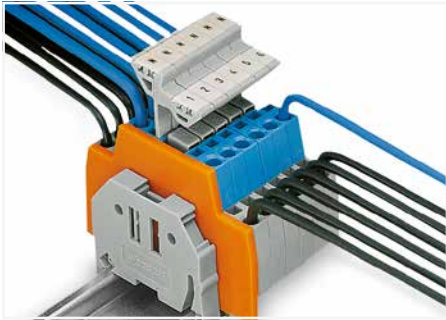
Example of a mixed assembly with double-deck terminal blocks.
The 280 Series Double-Deck Terminal Blocks are available with decks of same or different color according to their function. This is an additional visual aid during wiring, service or maintenance.



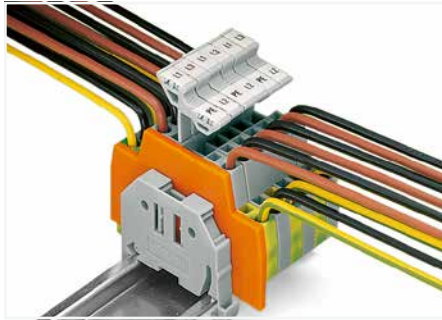
Double-deck terminal blocks accommodate two circuits of different potentials on two decks; different circuits can be differentiated by color coding either deck (280 Series). The lower deck is wider than the upper for ease of wiring.



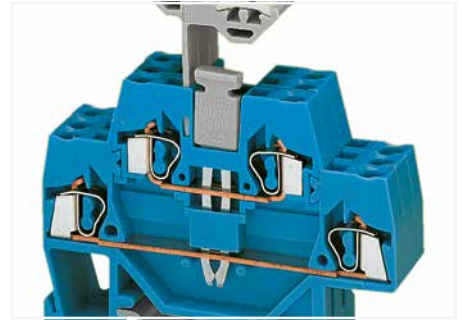
With a terminal block width of just 5 mm, an effective width of just 2.5 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² ... 2.5 mm² (28 ... 14 AWG).



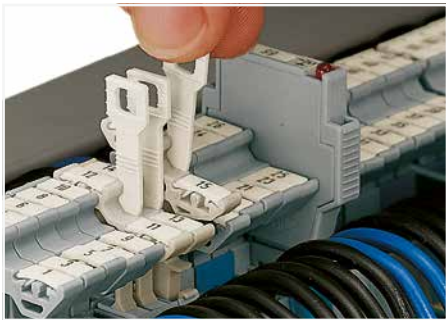
Double-deck terminal blocks used as control conductor terminal blocks (e.g., for magnetic valves) with the upper deck commoned.



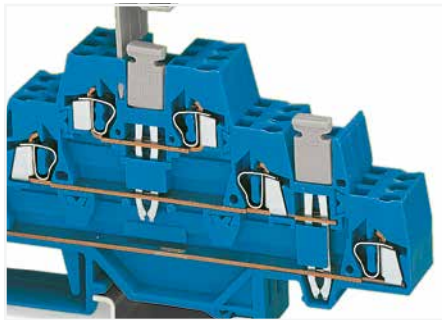
Double-deck terminal blocks used for connecting a three-phase motor.



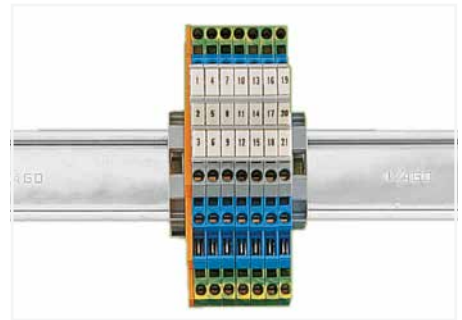
Commoning with a vertical jumper (281-421). Push vertical jumper down until fully inserted.



Pulling the disconnect tab.



A vertical jumper allows commoning of the upper and lower levels, providing a 6-conductor feedthrough terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same level using a push-in adjacent jumper.



Double-deck (triple-deck) terminal blocks accommodate two (three) circuits of different potentials on two (three) decks; different circuits can be differentiated by color coding either deck (280 Series). The lower deck is wider than the upper for ease of wiring.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



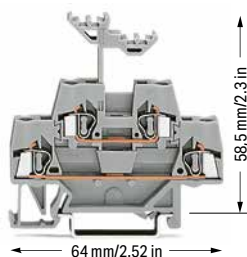
fine-stranded,
with pin terminal
(gastight crimped)

Double-Deck Terminal Block

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 20 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
gray	280-519	50
blue	280-529 ②	50

Other terminal blocks with the same profile:

Diode	280-940/281-410	Page 370
LED	280-943/281-434	Page 370

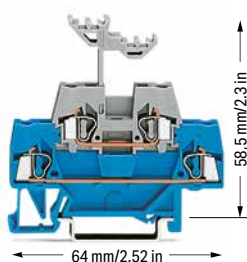
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)
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Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
blue/gray	280-523	50
gray/blue	280-533	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

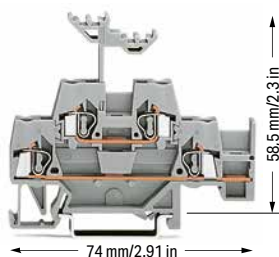
orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)
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Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 20 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
gray	280-520	50
blue	280-530 ②	50

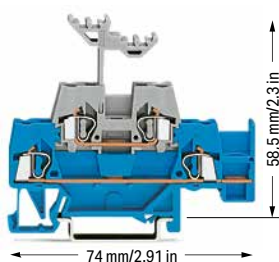
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)
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Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-524	50
gray/blue	280-534	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

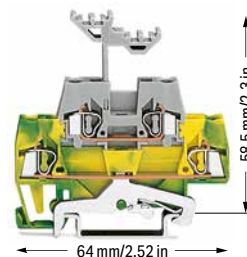
orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)
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Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 20 A ③
I _N 20 A	300 V, 20 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; ground conductor/through terminal block

Color	Item No.	Pack. Unit
green-yellow/gray	280-527	50
green-yellow/blue	280-537	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)
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Double-deck terminal block; 4-conductor ground terminal block; internally commoned

Color	Item No.	Pack. Unit
green-yellow	280-517	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

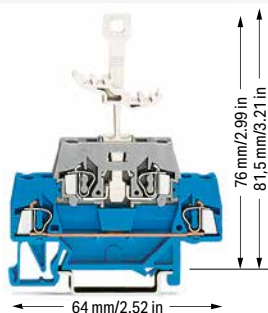
orange	280-366	100 (25)
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Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 10 A	300 V, 20 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



Double-deck terminal block; through/disconnect terminal block

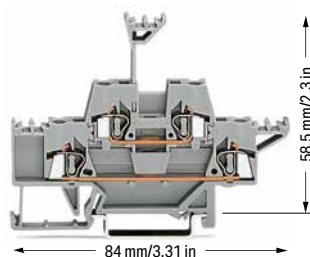
Color	Item No.	Pack. Unit
blue/gray	280-525	50
gray/gray	280-521	50

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 20 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



Double-deck terminal block; through/through terminal block; with additional marking options on both terminal block sides

Color	Item No.	Pack. Unit
gray	280-513	50

*12 AWG: THHN, THWN

- ① 500 V / 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree (see Section 15)

- ② Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)
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Vertical jumper; insulated; I_N 24 A

gray	281-421	200 (25)
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Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)
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Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1
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Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)
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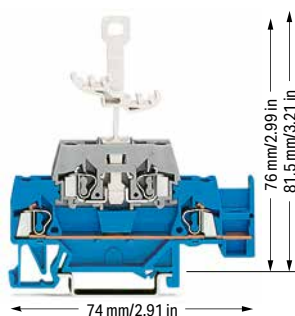
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)
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Double-deck terminal block; through/disconnect terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-526	50
gray/gray	280-522	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)
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Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

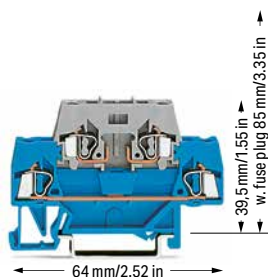
Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)
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Double- and Triple-Deck Carrier Terminal Block for Fuse Plugs 2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 1 2	300 V, 15 A 1 2
I _N 10 A (20 A)	300 V, 20 A 2
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
blue/gray	280-531	50
○ gray/gray	280-514	50

Accessories; item-specific

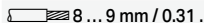
End and intermediate plate; 2.5 mm thick

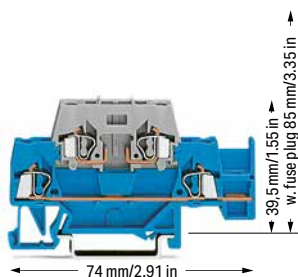
	orange	280-341	100 (25)
	gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-366	100 (25)
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Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 1 2	300 V, 15 A 1 2
I _N 10 A (20 A)	300 V, 20 A 2
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-532	50
○ gray/gray	280-891	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-343	100 (25)
	gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-369	100 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

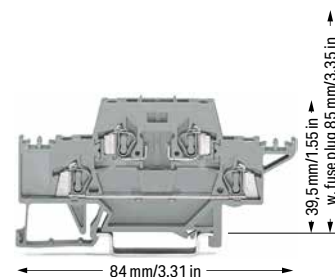
	gray	280-402	200 (25)
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Alternate jumper; insulated; I_N = I_N terminal block

	gray	280-409	100 (25)
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Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 1 2	
I _N 10 A (10 A)	
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
○ gray/gray	280-528	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-341	100 (25)
	gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

	orange	280-366	100 (25)
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Accessories

Appropriate marking systems: 4 mm wide WSB for plug and WMB terminal block

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	280-471	200 (25)
---	------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

	dark gray	280-472	200 (25)
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Fuse plug with pull-tab; 6 mm wide

		281-511	50
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Fuse plug with pull-tab; 6 mm wide

		281-512	50
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Fuse plug with pull-tab; 24 VAC/DC; with LED; 6 mm wide

		281-512/281-501	50
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Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-482	200 (25)
	3-way	280-483	200 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-492	200 (25)
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Operating tool; insulated

	2-way	280-432	1
	3-way	280-433	1

WMB marking card; white; 10 strips with 10 markers/card; 4 ... 4.2 mm stretchable

	plain	793-4501	5
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WMB marking card; white; 10 strips with 10 markers/card; 4 ... 4.2 mm stretchable

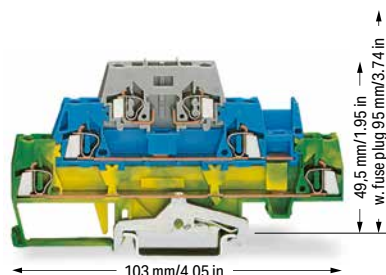
	F1, ..., F10 (10x)	794-4615	5
	F11, ..., F20 (10x)	794-4616	5
	F21, ..., F30 (10x)	794-4617	5
	F31, ..., F40 (10x)	794-4618	5
	F41, ..., F50 (10x)	794-4619	5

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 1 2	300 V, 15 A 1 2
I _N 20 A (20 A)	300 V, 20 A 2

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



Triple-deck terminal block; ground conductor/through-carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
green-yellow/blue/gray	280-510	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-304	50 (25)
	gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

	orange	280-336	50 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

	gray	280-402	200 (25)
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Alternate jumper; insulated; I_N = I_N terminal block

	gray	280-409	100 (25)
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Vertical jumper; insulated; I_N 24 A

	gray	281-421	200 (25)
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WSB marking card; white, 10 strips with 10 markers/card; 4 mm wide WSB markers

	plain	209-701	5
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WSB marking card; plain; 10 strips with 10 markers/card; 4 mm wide WSB markers

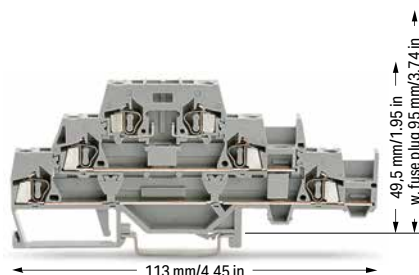
	yellow	209-701/000-002	5
	red	209-701/000-005	5
	blue	209-701/000-006	5
	gray	209-701/000-007	5
	orange	209-701/000-012	5
	light green	209-701/000-017	5
	green	209-701/000-023	5
	violet	209-701/000-024	5

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 1 2	300 V, 15 A 1 2
I _N 20 A (20 A)	300 V, 20 A 2

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



Triple-deck terminal block; through/through/carrier terminal block for fuse plugs; with slot for adjacent jumper on lower level

Color	Item No.	Pack. Unit
gray/gray/gray	280-889	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-306	50 (25)
	gray	280-305	50 (25)

Intermediate plate; 1.1 mm thick

	orange	280-339	50 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

	gray	280-402	200 (25)
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Alternate jumper; insulated; I_N = I_N terminal block

	gray	280-409	100 (25)
--	------	---------	----------

Vertical jumper; insulated; I_N 24 A

	gray	281-421	200 (25)
--	------	---------	----------

WSB marking card; for fuse plugs (281-5...); white; 4 mm wide WSB markers

	F1, ..., F10 (10x)	209-787	5
	F11, ..., F20 (10x)	209-700/209-124	5
	F21, ..., F30 (10x)	209-700/209-125	5
	F31, ..., F40 (10x)	209-700/209-126	5
	F41, ..., F50 (10x)	209-700/209-127	5

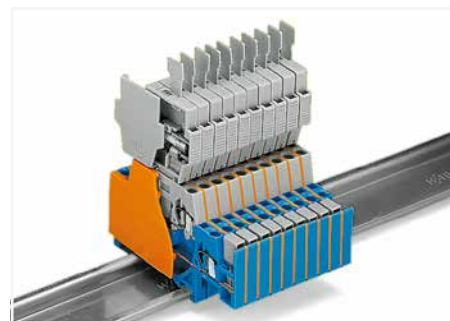
*12 AWG: THHN, THWN

- 500 V / 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

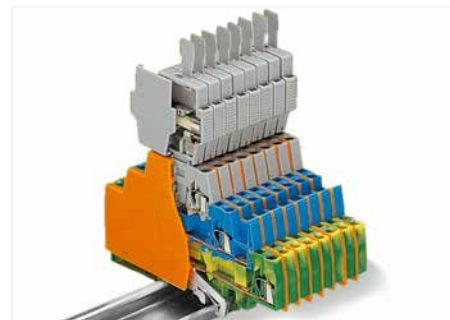
- Electrical ratings are given by the fuse or LED nominal voltage (see page 387).

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

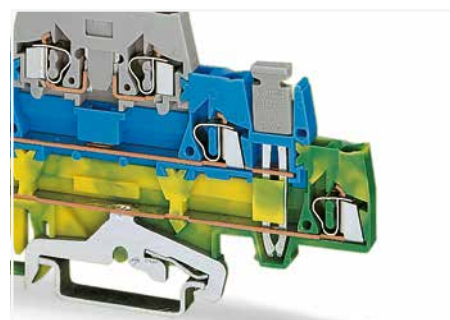
Approvals and corresponding ratings,
visit www.wago.com



When double-deck terminal blocks are used with a fuse plug (6 mm wide) in the receptacle (top) level, the extra width can be compensated for the 280 Series (5 mm wide) via an intermediate plate (1.1 mm thick). If required, this special intermediate plate still allows commoning on the lower level via push-in adjacent jumpers (280-402).



When triple-deck terminal blocks are used with a fuse plug (6 mm wide) in the receptacle (top) level, the extra width can be compensated for the 280 Series (5 mm wide) via an intermediate plate (1.1 mm thick).



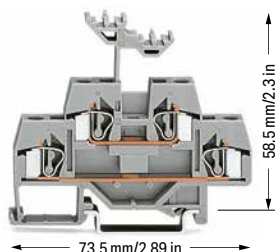
Grounding to DIN-rail:
Connecting N-level to ground level via vertical jumper.

Double-Deck Terminal Block

4 mm²; 281 Series

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
500 V / 6 kV / 3 ①	600 V, 20 A ②
I _N 26 A	600 V, 25 A ②
Terminal block width: 6 mm / 0.236 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	



Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
gray	281-619	50
blue	281-629 ②	50

Other terminal blocks with the same profile:

Diode	281-633/281-410	Page 414
LED	281-634/281-434	Page 414

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-341	100 (25)
gray	281-340	100 (25)

Accessories; 281 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)
-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)
-----------	---------	----------

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	281-409	100 (25)
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Vertical jumper; insulated; I_N 24 A

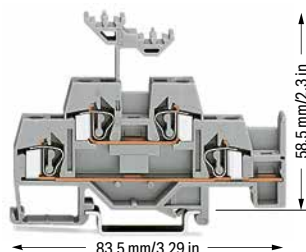
gray	281-421	200 (25)
------	---------	----------

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
500 V / 6 kV / 3 ①	600 V, 20 A ②
I _N 26 A	600 V, 25 A ②
Terminal block width: 6 mm / 0.236 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	



Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
gray	281-620	50
blue	281-630 ②	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-343	100 (25)
gray	281-342	100 (25)

① 500 V = rated voltage

6 kV = rated impulse voltage

3 = pollution degree

(see Section 15)

② Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:

Insulation stop, page 425

Comb-style jumper bar, page 426

Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com



The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring or commoning. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.

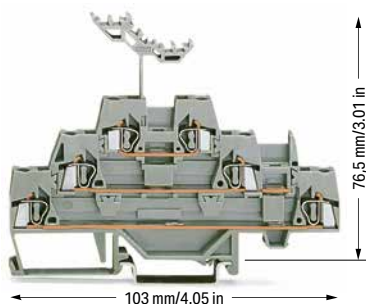


A vertical jumper allows commoning of upper and lower level, giving a 4-conductor commoned through terminal block in one housing. Two adjacent terminals may be commoned together on the same level using a push-in adjacent jumper.

Triple-Deck Terminal Block 2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 20 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Triple-deck terminal block; through/through/through terminal block

Color	Item No.	Pack. Unit
○ gray	280-549	40
● blue	280-551	40

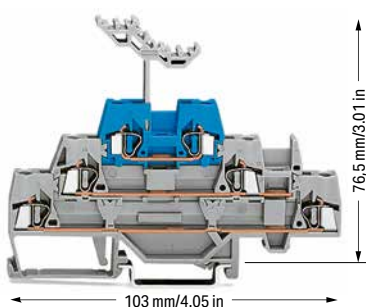
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)
--------	---------	---------



Triple-deck terminal block; through/through/through terminal block

Color	Item No.	Pack. Unit
gray/gray/blue	280-552	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

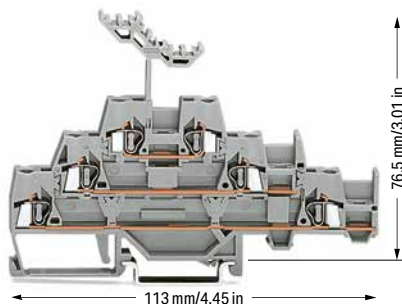
orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)
--------	---------	---------

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 20 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Triple-deck terminal block; through/through/through terminal block; with slot for adjacent jumper on lower level

Color	Item No.	Pack. Unit
○ gray	280-550	40

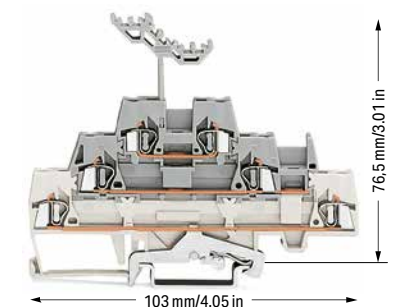
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-306	50 (25)
gray	280-305	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-339	50 (25)
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Triple-deck terminal block; shield conductor/through/through terminal block

Color	Item No.	Pack. Unit
white/gray/gray	280-548	40
white/blue/gray	280-558	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

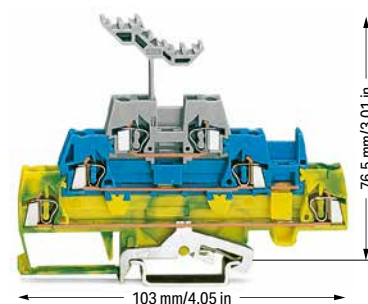
orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)
--------	---------	---------

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
500 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 20 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



Triple-deck terminal block; ground conductor/through/through terminal block

Color	Item No.	Pack. Unit
green-yellow/blue/gray	280-547	40
green-yellow/gray/gray	280-557	40

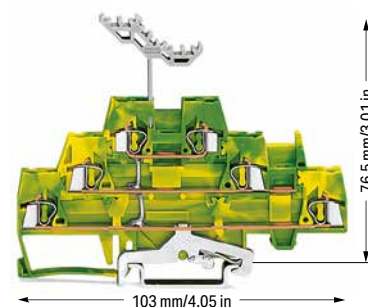
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)
--------	---------	---------



Triple-deck terminal block; 6-conductor ground terminal block; internally commoned

Color	Item No.	Pack. Unit
● green-yellow	280-597	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)
--------	---------	---------

*12 AWG: THHN, THWN

- ① 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	280-471	200 (25)
---	------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

	dark gray	280-472	200 (25)
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Adjacent jumper; insulated; $I_N = I_N$ terminal block

	gray	280-402	200 (25)
	yellow-green	280-422	200 (25)

Alternate jumper; insulated; $I_N = I_N$ terminal block

	gray	280-409	100 (25)
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Vertical jumper; insulated; I_N 24 A

	gray	281-421	200 (25)
---	------	---------	----------

Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

	2-way	280-482	200 (25)
	3-way	280-483	200 (25)

Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

	10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

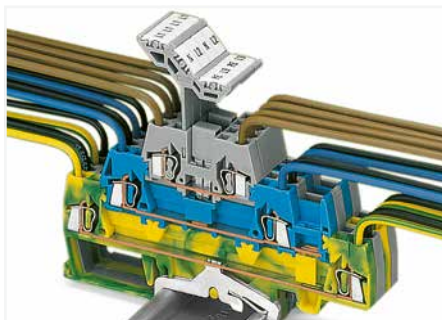
	2-way	280-492	200 (25)
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Operating tool; insulated

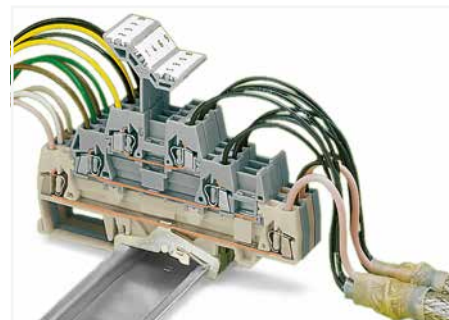
	2-way	280-432	1
	3-way	280-433	1

Operating tool; insulated

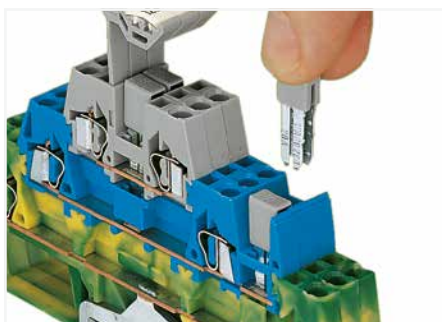
	10-way	280-440	1
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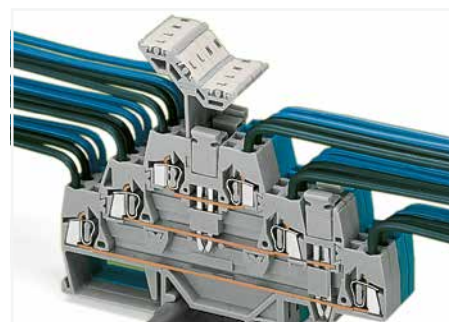
Three-conductor power circuit with additional branch circuit tapping



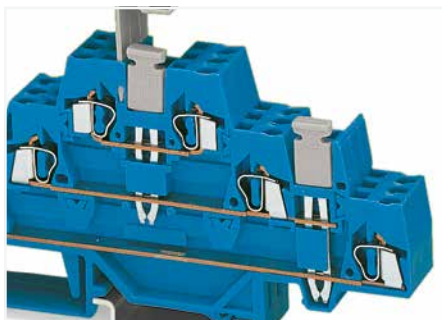
Shielded twisted pair cables



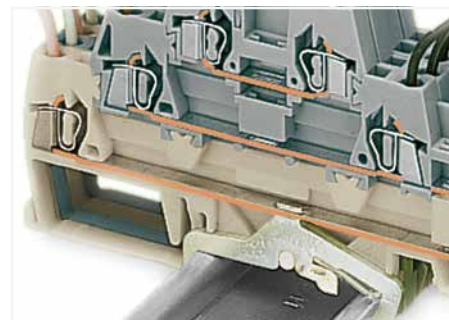
Triple-deck terminal blocks accommodate three circuits of different potentials on three decks; different circuits can be differentiated by color coding either deck (280 Series).



Commoning with vertical and adjacent jumpers.



A vertical jumper allows commoning of the upper and lower levels, providing a 6-conductor feedthrough terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same level using a push-in adjacent jumper.

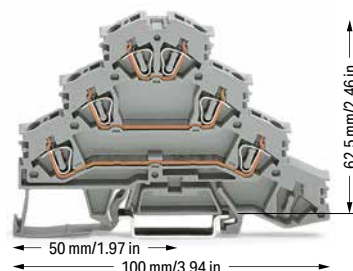
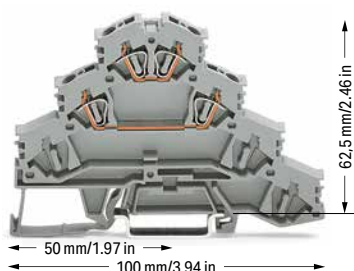
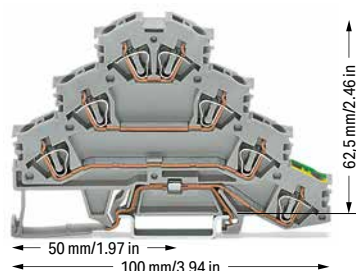


Both ground and shield conductor terminal blocks have a contact foot in the bottom level, automatically establishing direct contact to the DIN-rail or busbar. The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks. With a terminal block width of just 5 mm, an effective width of just 1.67 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² ... 2.5 mm² (28 ... 14 AWG).

Technical Data	
0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3	600 V, 20 A
I _N 20 A (2.5 mm ²)	300 V, 25 A
I _N 25 A (4 mm ²)	
Terminal block width: 6 mm / 0.236 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data	
0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3	600 V, 20 A
I _N 20 A (2.5 mm ²)	300 V, 25 A
I _N 25 A (4 mm ²)	
Terminal block width: 6 mm / 0.236 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data	
0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3 ①	600 V, 20 A
I _N 20 A (2.5 mm ²)	300 V, 25 A Ⓒ
I _N 25 A (4 mm ²)	
Terminal block width: 6 mm / 0.236 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



	Item No.	Pack. Unit
○ L1 - L2 - L3 - PE	281-530	50

	Item No.	Pack. Unit
○ L1 - L2	281-531	50

	Item No.	Pack. Unit
○ L1 - L2 - L3	281-532	50

Appropriate marking systems: WMB/Marking strips

Marking strip; plain; 7.5 mm wide; 50 m reel

orange	281-366	100 (25)
gray	281-365	100 (25)

translucent	709-177	1
-------------	---------	---

white	281-470	200 (25)
-------	---------	----------

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm		
plain	793-5501	5

	light gray	281-471	200 (25)
--	------------	---------	----------

	dark gray	281-472	200 (25)
---	-----------	---------	----------

	2-way	281-482	100 (25)
	3-way	281-483	100 (25)
	5-way	281-485	100 (25)
	10-way	281-490	50 (25)

	2-way	281-492	100 (25)
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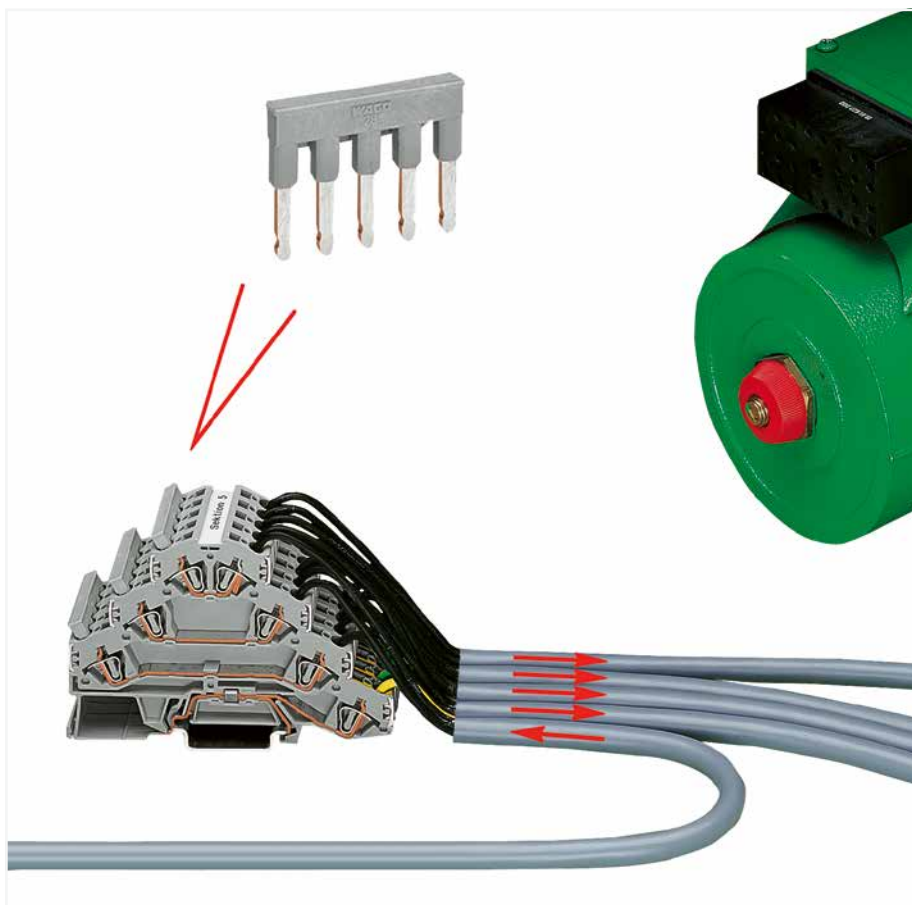
	2-way	280-432	1
	3-way	280-433	1
	5-way	281-440	1

	red	210-136	50
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- ① 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



6



In addition to rail-mount terminal blocks for electric motor wiring, special versions are also available:

- Version **without** ground contact and only two potentials: These terminal blocks were custom designed to support additional functions, such as engine brakes or temperature sensors. Sharing a common profile, this terminal block version can be put next to the appropriate electric motor wiring terminal block without using intermediate plates. That makes the rail assembly easier to understand and wire. This also prevents wiring errors as no conductor entry is unused.

- Version **without** ground contact and with three potentials:

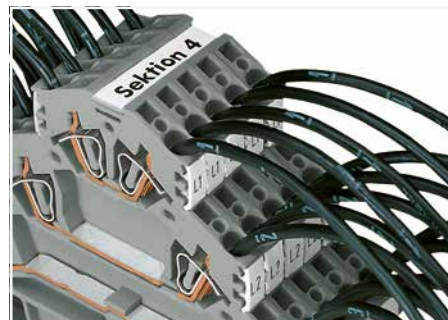
Clearly designated clamping units are the primary advantage to this terminal block design. When using devices with protective insulation, for example, there are no open ground clamping units that could create confusion.



Commoning using comb-style jumper bars.
Push comb-style jumper bars down until fully inserted.



Testing with voltage tester.

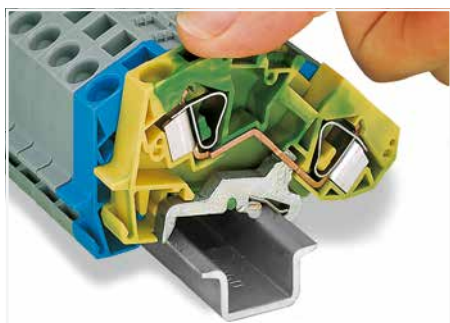


Marking clamping points via WMB Multi Marking System.
Marking groups via marking strips (709-177).

Rail-Mount Terminal Blocks TOPJOB® Classic

780 ... 785 Series

Description and Installation



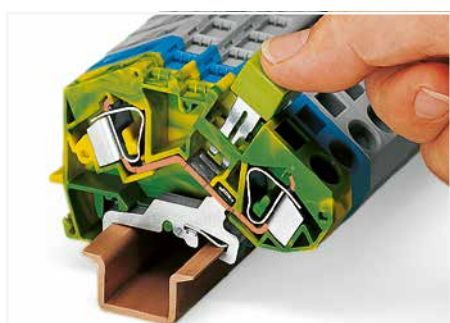
By snapping a ground conductor terminal block onto the DIN-rail, a direct electrical connection is automatically made to the rail.



Removing a terminal block from the assembly.



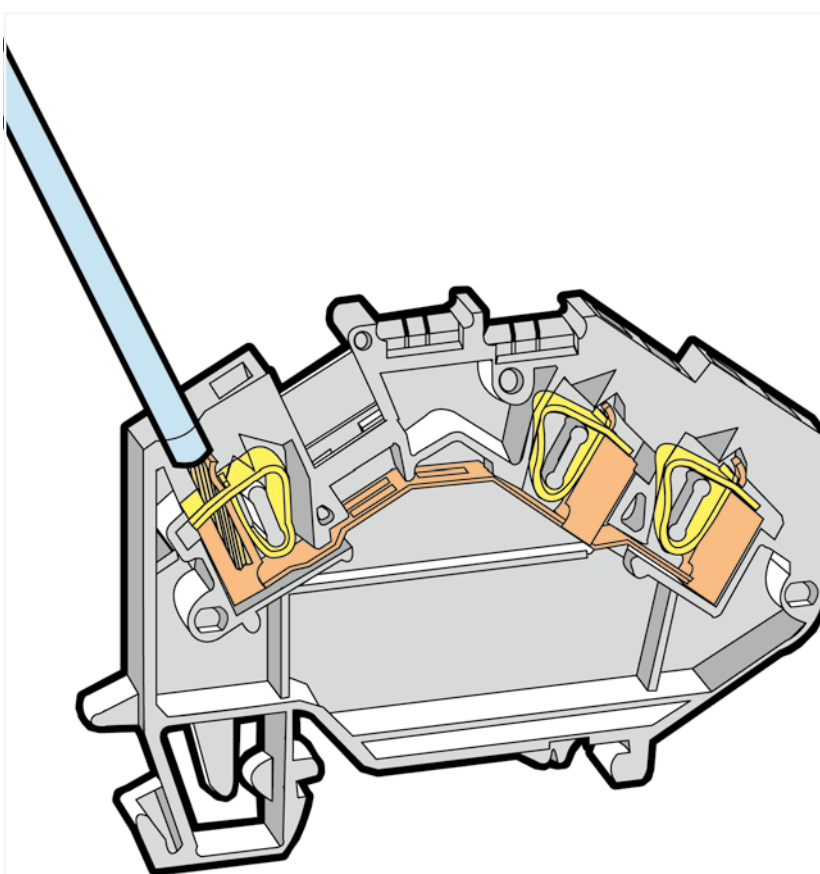
Operating an N-disconnect slide link.



Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.



Test plug module assembly – combining test plug and spacer modules.



Insulation stop:
Prevents the conductor insulation from being pushed into the clamping unit.
(Available for terminal blocks up to 4 mm²/12 AWG)

CAGE CLAMP® terminates the following copper conductors:
solid "s" stranded "st"

fine-stranded "f-st",
also with tinned
single strands

fine-stranded,
tip-bonded

fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

Through/Ground Conductor/Shield Conductor and Ex Terminal Block TOPJOB® Classic

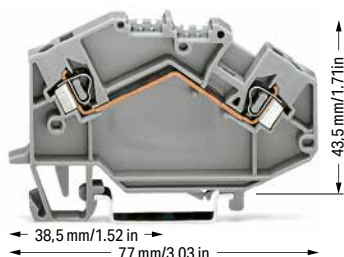
2.5 mm²; 780 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
1000 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 24 A	600 V, 20 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	780-601	50
blue	780-604 ②	50
orange	780-602	50
light gray ⑤	780-992 ③	50

2-conductor ground terminal block

green-yellow	780-607	50
green-yellow ⑤	780-607/999-950 ③	50

Other terminal blocks with the same profile:

N-disconnect	780-613	Page 347
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Accessories; 780 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	780-317	100 (25)
--------	---------	----------

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)
----------	---------	---------

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
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Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

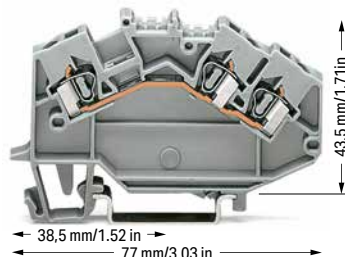
gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
1000 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 24 A	600 V, 25 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	780-631	50
blue	780-651 ②	50
orange	780-654	50
light gray ⑤	780-993 ③	50

3-conductor ground terminal block

green-yellow	780-637	50
green-yellow ⑤	780-637/999-950 ③	50

3-conductor shield terminal block

white	780-640	50
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Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)
------	---------	----------

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)
10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)
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Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

*12 AWG: THHN, THWN

- 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- Terminal blocks with a blue insulated housing are suitable for Ex i applications.
- Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 2.5 mm² / 24 ... 12 AWG*
690 V; 23 A
(see Section 15)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:

Insulation stop, page 425

Jumpers, from page 426

Comb-style jumper bar, page 426

Testing accessories, from page 420

Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 780 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)
------	---------	----------

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)
------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

gray	280-404	100 (25)
------	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²

I _N 24 A	281-407	100 (25)
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Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1
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Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic

4 mm²; 781 Series

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
1000 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 32 A	600 V, 20 A ③

Terminal block width: 6 mm / 0.236 inch

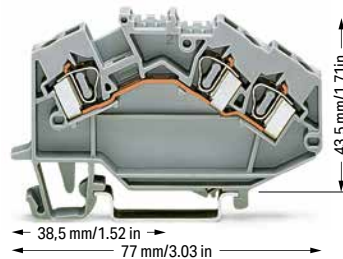
9 ... 10 mm / 0.35 ... 0.39 inch

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
1000 V / 8 kV / 3 ①	600 V, 20 A ②
I _N 32 A	600 V, 20 A ③

Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	781-601	50
blue	781-604 ②	50
light gray ③	781-992 ③	50

2-conductor ground terminal block

green-yellow	781-607	50
green-yellow ③	781-607/999-950 ③	50

Other terminal blocks with the same profile:

N-disconnect	781-613	Page 347
Potential	781-623	Page 347

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	781-631	50
blue	781-651 ②	50
light gray ③	781-993 ③	50

3-conductor ground terminal block

green-yellow	781-637	50
green-yellow ③	781-637/999-950 ③	50

Other terminal blocks with the same profile:

N-disconnect	781-643	Page 347
Potential	781-653	Page 347

Accessories; 781 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	780-317	100 (25)
--------	---------	----------

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)
----------	---------	---------

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)
-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)
-----------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	281-415	100 (25)
--------	---------	----------

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	281-409	100 (25)
------	---------	----------

Staggered jumper; insulated; 6 mm wide; I_N 32 A

1 to 2	781-452	100 (25)
1 to 3	781-453	100 (25)
1 to 4	781-454	100 (25)
1 to 5	781-455	50 (25)
1 to 6	781-456	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)
-------	---------	----------

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

① 1000 V = rated voltage

8 kV = rated impulse voltage

3 = pollution degree
(see Section 15)

② Terminal blocks with a blue insulated housing are suitable for Ex i applications.

③ Terminal blocks with an Ex mark are suitable for Ex e II applications.

0.2 ... 4 mm² / 24 ... 12 AWG

690 V

30 A, for 2-conductor terminal blocks

27 A, for 3-conductor terminal blocks

(see Section 15)

Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:

Insulation stop, page 425

Jumpers, from page 426

Comb-style jumper bar, page 426

Testing accessories, from page 420

Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 781 Series

Appropriate marking systems:

WMB/WMB Inline/WFB

Test plug module; snaps together; 6 mm wide

gray	280-418	100 (25)
------	---------	----------

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)
------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

gray	280-404	100 (25)
------	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²

I _N 24 A	281-407	100 (25)
---------------------	---------	----------

Operating tool; specialty blade; for all TOPJOB® terminal blocks

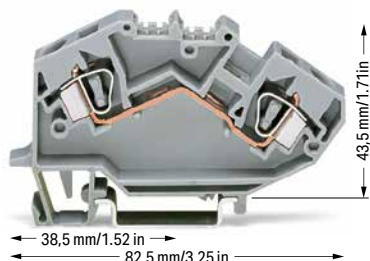
	777-310	1
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Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic

6 mm²; 782 Series and 10 (16) mm²; 784 Series

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
1000 V / 8 kV / 3 ②	600 V, 30 A ③
I _N 41 A	600 V, 25 A ④
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	782-601	25
blue	782-604 ⑤	25
light gray ⑥	782-992 ④	50

2-conductor ground terminal block

green-yellow	782-607	25
green-yellow ⑥	782-607/999-950 ④	25

Other terminal blocks with the same profile:

N-disconnect	782-613	Page 348
Potential	782-623	Page 348

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)
------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)
--------	---------	----------

B-type test plug module; snaps together; 8 mm wide

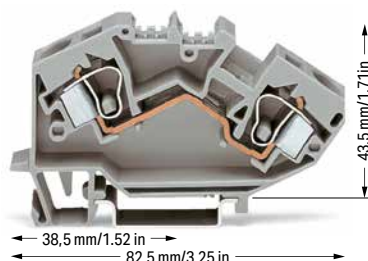
gray	709-310	100 (25)
------	---------	----------

B-type spacer module; snaps together; 8 mm wide

gray	709-311	100 (25)
------	---------	----------

Technical Data

0.2 ... 10 (16) mm ² ①	24 ... 6 AWG
1000 V / 8 kV / 3 ②	600 V, 50 A ③
I _N 57 A	600 V, 35 A ④
Terminal block width: 10 mm / 0.394 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	784-601	25
blue	784-604 ⑤	25
light gray ⑥	784-992 ⑤	25

2-conductor ground terminal block

green-yellow	784-607	25
green-yellow ⑥	784-607/999-950 ⑤	25

Other terminal blocks with the same profile:

N-disconnect	784-613	Page 348
Potential	784-623	Page 348

Accessories; item-specific

Adjacent jumper; insulated; I_N 57 A

gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A

gray	284-409	50 (25)
------	---------	---------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	284-415	50 (25)
--------	---------	---------

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)
------	---------	----------

B-type spacer module; snaps together; 8 mm wide

gray	709-311	100 (25)
------	---------	----------

B-type spacer plate; snaps together; 2 mm wide

gray	709-312	100 (25)
------	---------	----------

Finger guard; touch-proof cover protects unused conductor entries

yellow	284-400	100 (25)
--------	---------	----------

① Max. conductor cross section: 16 mm²

② 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree (see Section 15)

③ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

④ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 6 mm² / 24 ... 10 AWG
690 V; 39 A (see Section 15)

⑤ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 10 mm² / 24 ... 8 AWG
690 V; 53 A (see Section 15)

Please observe the application notes:

Test plug module, page 423
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	782-317	100 (25)
--------	---------	----------

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)
----------	---------	---------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue	777-305	25
------	---------	----

Operating tool; specialty blade; for all TOPJOB® terminal blocks

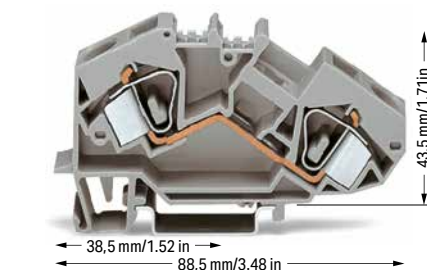
	777-310	1
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Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic

16 mm²; 783 Series and 35 mm²; 785 Series

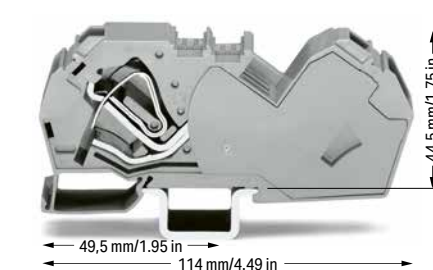
Technical Data

0.2 ... 16 mm²	24 ... 6 AWG
1000 V / 8 kV / 3 ❶	600 V, 65 A ❷
I _N 76 A	600 V, 50 A ❸
Terminal block width: 12 mm / 0.472 inch	
16 ... 17 mm / 0.63 ... 0.67 inch	



Technical Data

6 ... 35 mm²	8 ... 2 AWG
1000 V / 8 kV / 3 ❶	600 V, 115 A ❷
I _N 125 A	600 V, 125 A ❸
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	783-601	25
blue	783-604 ❹	25
light gray ❺	783-992 ❻	25

2-conductor ground terminal block

green-yellow	783-607	25
green-yellow ❺	783-607/999-950 ❻	25

Other terminal blocks with the same profile:

N-disconnect	783-613	Page 348
Potential	783-623	Page 348

Accessories; item-specific

End and intermediate plate; 1.5 mm thick

orange	783-317	100 (25)
--------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	283-415	50 (25)
--------	---------	---------

Finger guard; touch-proof cover protects unused conductor entries

yellow	283-400	100 (25)
--------	---------	----------

Adjacent jumper; insulated; I_N 70 A

gray	283-402	100 (25)
yellow-green	283-422	100 (25)

Alternate jumper; insulated; I_N 76 A

gray	283-409	100 (25)
------	---------	----------

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray	283-407	25
------	---------	----

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plug; for 1.5 ... 16 mm² terminal blocks

gray	283-404	25
------	---------	----

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	785-601	25
blue	785-604	25

2-conductor ground terminal block

green-yellow	785-607	25
--------------	---------	----

Other terminal blocks with the same profile:

N-disconnect	785-613	Page 349
Potential	785-623	Page 349

Accessories; item-specific

Adjacent jumper; insulated; I_N 85 A

gray	285-435	50 (25)
------	---------	---------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	285-416	50 (25)
--------	---------	---------

Finger guard; touch-proof cover protects unused conductor entries

yellow	285-401	100
--------	---------	-----

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray	283-407	25
------	---------	----

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plug; for 1.5 ... 16 mm² terminal blocks

gray	283-404	25
------	---------	----

- ❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

- ❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

- ❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 6 mm² / 24 ... 10 AWG
690 V; 39 A
(see Section 15)

- ❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 ... 10 mm² / 24 ... 8 AWG
690 V; 53 A
(see Section 15)

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	283-404	25
------	---------	----

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue	777-305	25
------	---------	----

WMB marking card; white; 10 strips with 10 markers/card; for 5 ... 17.5 mm terminal block width

plain	793-501	5
-------	---------	---

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

plain	793-5501	5
-------	----------	---

Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1
--	---------	---

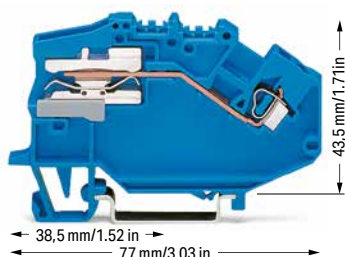
N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block

TOPJOB® Classic

2.5 mm²; 780 Series and 4 mm²; 781 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	600 V, 20 A ②
I _N 24 A	
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



1-conductor N-disconnect terminal block

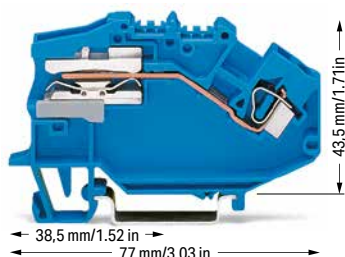
Color	Item No.	Pack. Unit
● blue	780-613 ②	50

Other terminal blocks with the same profile:

Through	780-601	Page 303
---------	---------	----------

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3 ①	600 V, 20 A ②
I _N 32 A	
Terminal block width: 6 mm / 0.236 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	



1-conductor power distribution disconnect terminal block

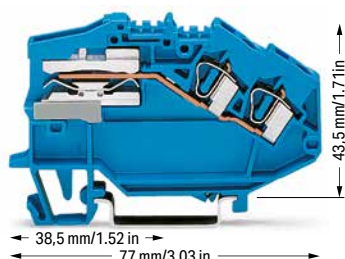
Color	Item No.	Pack. Unit
● blue	781-613 ②	50

1-conductor power distribution disconnect terminal block

○ gray	781-623 ③	50
--------	-----------	----

Other terminal blocks with the same profile:

Through	781-601	Page 304
---------	---------	----------



2-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
● blue	781-643 ②	50

2-conductor power distribution disconnect terminal block

○ gray	781-653 ③	50
--------	-----------	----

Other terminal blocks with the same profile:

Through	781-631	Page 304
---------	---------	----------

*12 AWG: THHN, THWN

- ① 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

② See page 349

③ See page 349

Approvals and corresponding ratings,
visit www.wago.com

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	780-317	100 (25)
--------	---------	----------

Busbar carrier; not suitable as an end stop; snaps onto
DIN-35 rail; 1.5 mm thick

blue	780-321	100 (25)
------	---------	----------

Busbar carrier; with end stop function and detachable
separator plate; snaps onto DIN-35 rail; 8 mm thick

blue	777-305	25
------	---------	----

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I _N 140 A	210-133	1
----------------------	---------	---

Busbar cover; 1000 mm long

transparent	777-303	1
-------------	---------	---

Connector; for busbar; with blue cover; 2.5 ... 16 mm²

blue	210-281	100 (50)
------	---------	----------

Connector; for busbar; 2.5 ... 35 mm²

unplated	209-105	50
----------	---------	----

Lock-out; prevents reclosing of slide link; snap-on type

orange	777-300	100 (25)
--------	---------	----------

Step-down test plug; from 4 mm socket to 2 mm plug;
max. 42 V

red	210-297	100 (25)
-----	---------	----------

Operating tool; specialty blade; for all TOPJOB® terminal
blocks

	777-310	1
--	---------	---

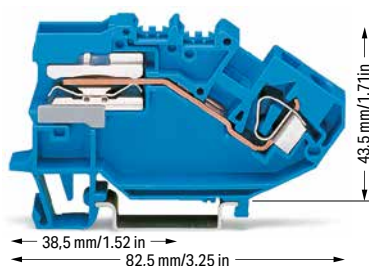
N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block

TOPJOB® Classic

6 mm²; 782 Series and 10 (16) mm²; 784 Series and 16 mm²; 783 Series and 35 mm²; 785 Series

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
400 V / 6 kV / 3 ②	600 V, 30 A ②
I _N 41 A	
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
● blue	782-613	25

1-conductor power distribution disconnect terminal block

○ gray	782-623	25
--------	---------	----

Other terminal blocks with the same profile:

Through	782-601	Page 345
---------	---------	----------

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue	782-321	100 (25)
------	---------	----------

Accessories

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue	777-305	25
------	---------	----

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I _N 140 A	210-133	1
----------------------	---------	---

Busbar cover; 1000 mm long

transparent	777-303	1
-------------	---------	---

Connector; for busbar; with blue cover; 2.5 ... 16 mm²

blue	210-281	100 (50)
------	---------	----------

Connector; for busbar; 2.5 ... 35 mm²

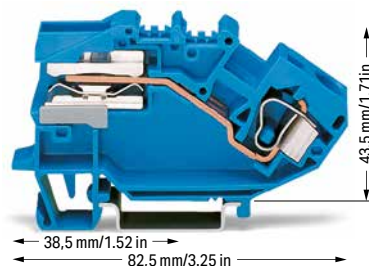
unplated	209-105	50
----------	---------	----

Lock-out; prevents reclosing of slide link; snap-on type

orange	782-300	100 (25)
--------	---------	----------

Technical Data

0.2 ... 10 (16) mm ² ①	24 ... 6 AWG
400 V / 6 kV / 3 ②	
I _N 57 A	
Terminal block width: 10 mm / 0.394 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
● blue	784-613	25

1-conductor power distribution disconnect terminal block

○ gray	784-623	25
--------	---------	----

Other terminal blocks with the same profile:

Through	784-601	Page 345
---------	---------	----------

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue	782-321	100 (25)
------	---------	----------

Appropriate marking systems: WMB/WMB Inline/WFB

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red	210-297	100 (25)
-----	---------	----------

WMB marking card; white; 10 strips with 10 markers/card; for 5 ... 17.5 mm terminal block width

plain	793-501	5
-------	---------	---

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

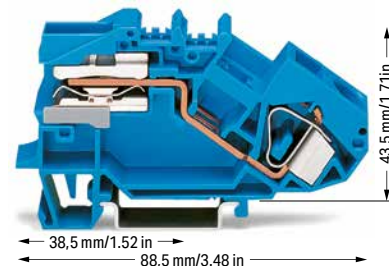
plain	793-5501	5
-------	----------	---

Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1
--	---------	---

Technical Data

0.2 ... 16 mm ²	24 ... 6 AWG
400 V / 6 kV / 3 ②	600 V, 65 A ②
I _N 68 A	
Terminal block width: 12 mm / 0.472 inch	
16 ... 17 mm / 0.63 ... 0.67 inch	



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
● blue	783-613	25

1-conductor power distribution disconnect terminal block

○ gray	783-623	25
--------	---------	----

Other terminal blocks with the same profile:

Through	783-601	Page 346
---------	---------	----------

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue	783-321	100 (25)
------	---------	----------

Technical Data

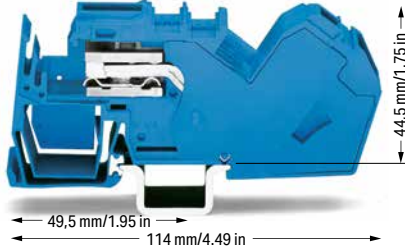
6 ... 35 mm² | 8 ... 2 AWG

400 V / 6 kV / 3 ②

I_N 125 A | 600 V, 125 AⓈ

Terminal block width: 16 mm / 0.63 inch

23 mm / 0.91 inch



1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
● blue	785-613	15

1-conductor power distribution disconnect terminal block

○ gray	785-623	15
--------	---------	----

Other terminal blocks with the same profile:

Through	783-601	Page 346
---------	---------	----------

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

	blue	783-321	100 (25)
---	------	---------	----------

① Max. conductor cross section: 16 mm²② 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

③ See column 5 (bottom)

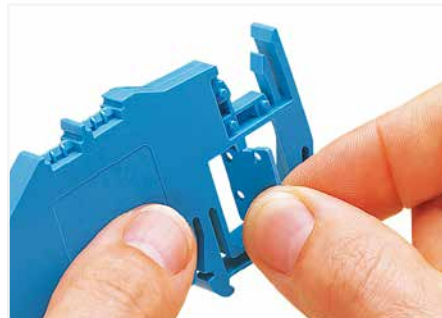
④ See column 6 (bottom)

Approvals and corresponding ratings,
visit www.wago.com

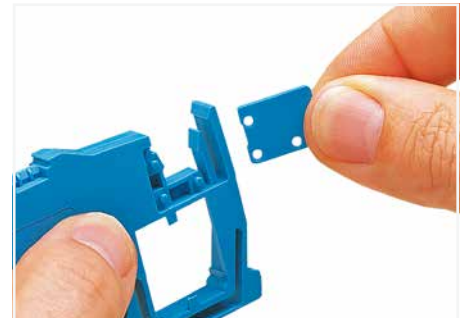
The 35 mm² (2 AWG) terminal blocks are the latest addition to WAGO TOPJOB®, the professional range of rail-mount terminal blocks for building installations. These terminal blocks, which include an end plate, are just 16 mm wide. Their compact design allows them to fit into standard distribution boxes. The lower conductor entry angle makes it much easier to terminate 35 mm² (2 AWG) conductors.

Furthermore, the N-busbar holder is integrated into the terminal block, eliminating separate holders.

6



Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.



Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.

N-conductor disconnect terminal blocks:

For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor. WAGO's N-disconnect terminal blocks meet this requirement.

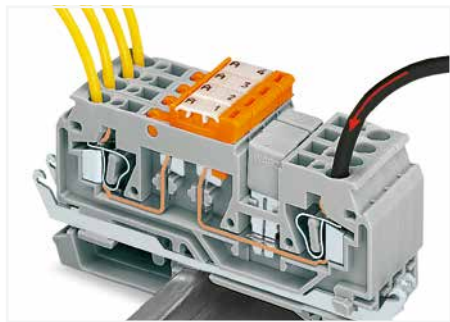
Power distribution disconnect terminal blocks:

According to DIN VDE 0100-710, "Requirements for operating facilities, rooms and special installations – medical facilities," equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking. WAGO's power distribution disconnect terminal blocks meet these requirements.

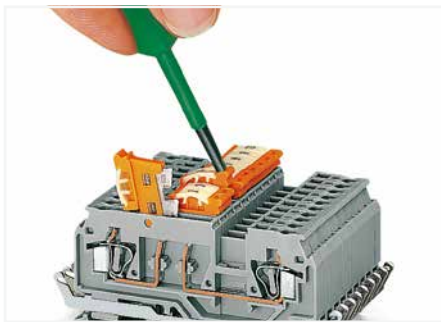
Disconnect/Test Terminal Blocks; with a Pivoting Knife Disconnect

280 Series

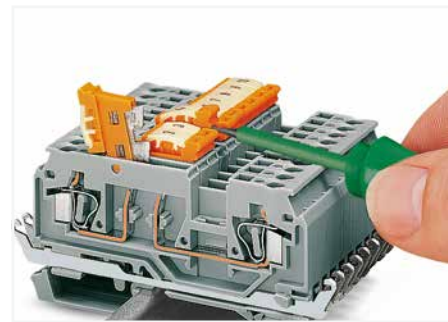
Description and Installation



Power distribution using an adjacent jumper – knife disconnect used to disconnect individual outputs.



Pivoting a knife disconnect.



Pivoting knife disconnect clearly indicates circuit state by defined, notched positions "ON" ↔ "OFF."

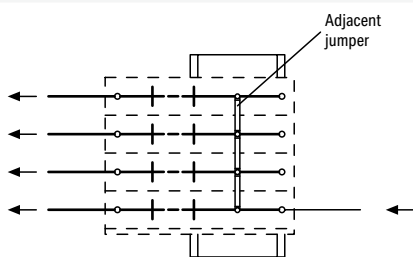


Diagram of the assembly as shown in the picture above



Power distribution using disconnect link in supply line – disconnection of all outputs.

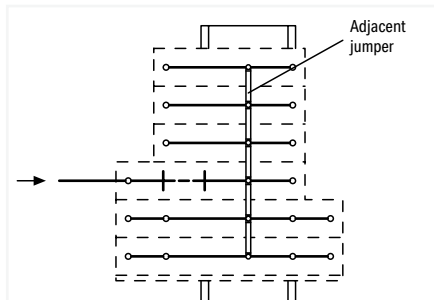
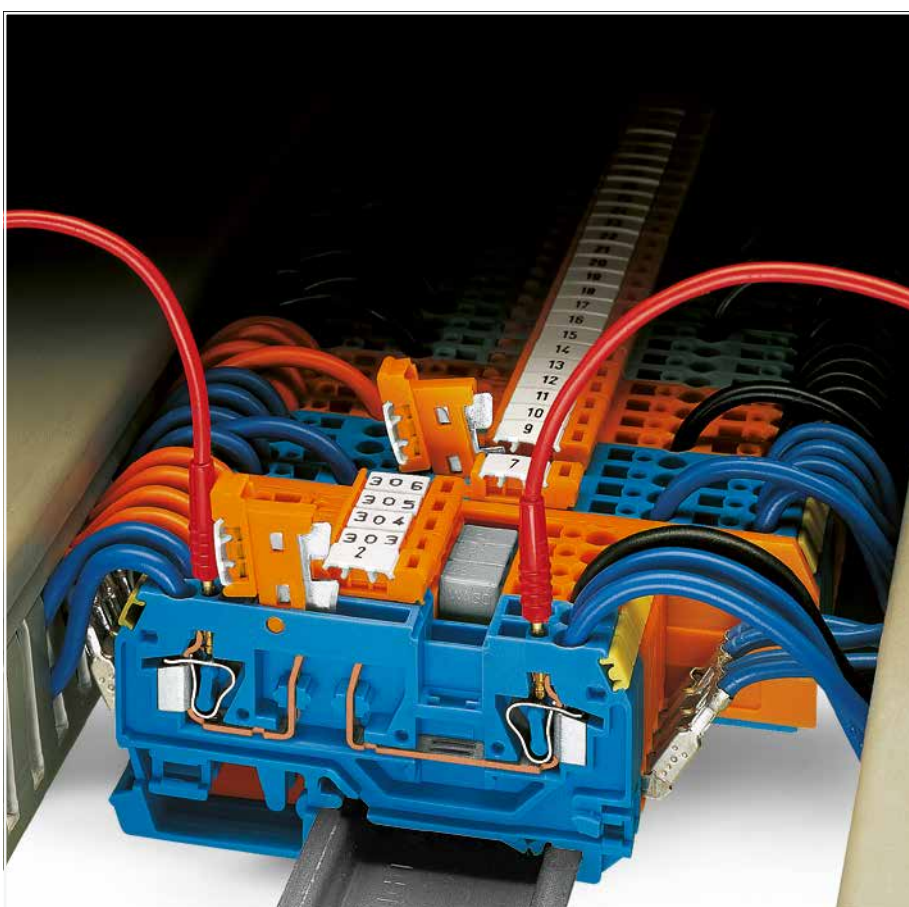
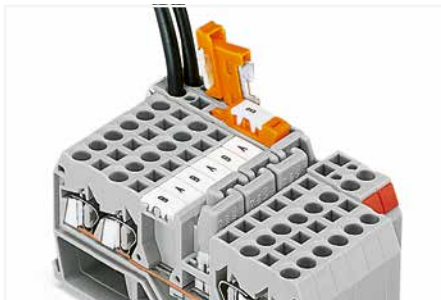


Diagram of the assembly as shown in the picture above



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.

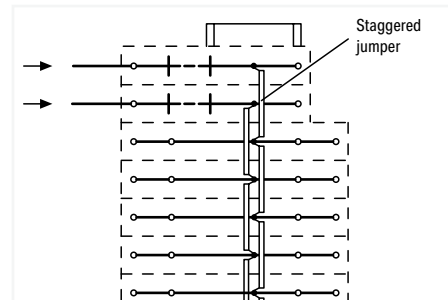


Diagram of the assembly as shown in the picture on the left



CAGE CLAMP® terminates the following copper conductors: solid "s"

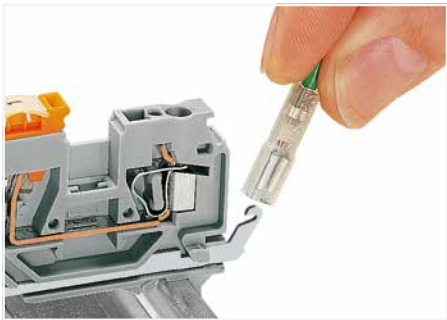


stranded "st"



fine-stranded "f-st", also with tinned single strands

For aluminum conductors, see notes in Section 15. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



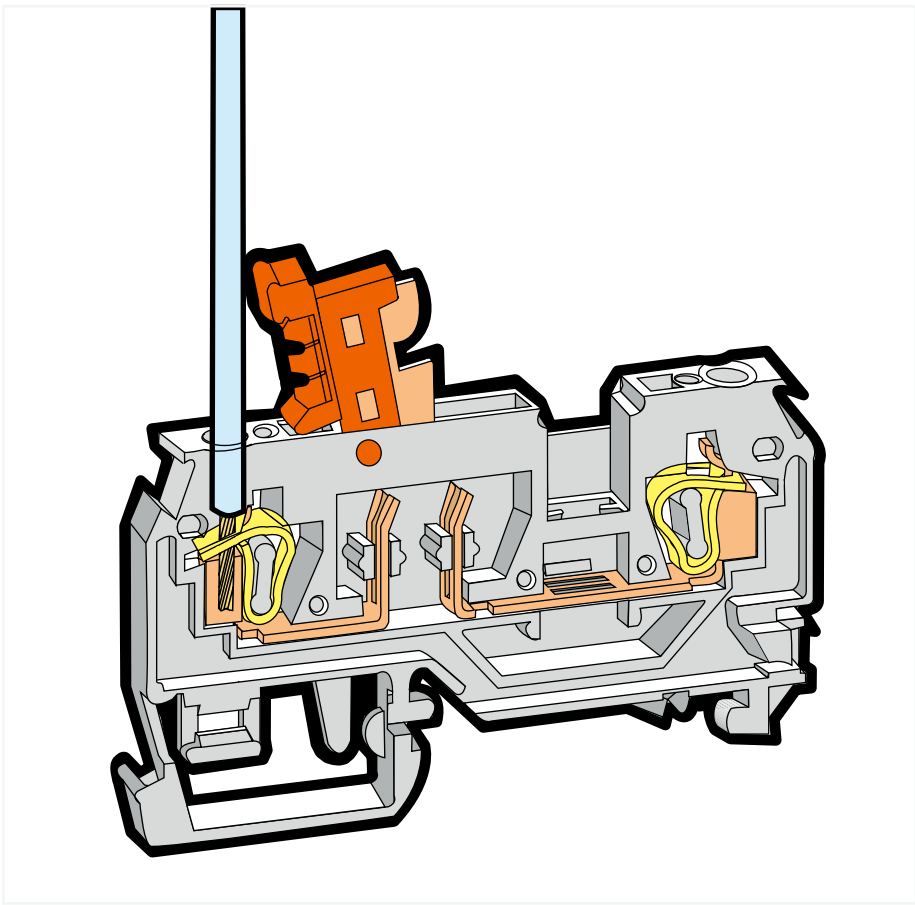
Shield contact via (2.5 x 0.8) mm solder/crimp quick disconnect terminal



Testing with voltage tester.



Terminal block marking: with WMB (center position) and Mini-WSB markers (on the sides)



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



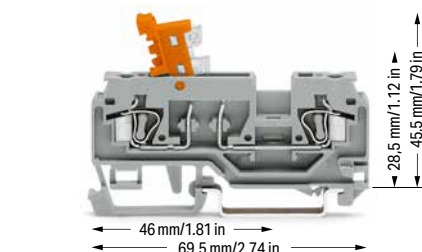
fine-stranded,
with pin terminal
(gastight crimped)

2-Conductor Disconnect/Test Terminal Block without/with Shield Contact

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	600 V, 15 A ②
I _N 16 A	300 V, 15 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



2-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
○ gray	280-870	100

Gray terminal block housing
Gray disconnect link

○ gray	280-868	100
--------	---------	-----

Blue terminal block housing
Orange disconnect link

● blue	280-876 ②	100
--------	-----------	-----

Orange terminal block housing
Orange disconnect link

● orange	280-879	100
----------	---------	-----

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-371	100 (25)
gray	280-374	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
-----------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

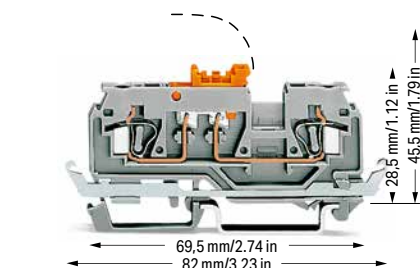
gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)
------	---------	----------

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
250 V / 4 kV / 3 ①	600 V, 15 A ②
I _N 16 A	300 V, 15 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



2-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
○ gray	280-871	100

Gray terminal block housing
Gray disconnect link

○ gray	280-869	100
--------	---------	-----

Orange terminal block housing
Orange disconnect link

● blue	280-880	100
--------	---------	-----

*12 AWG: THHN, THWN

- ① 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree (see Section 15)

- ② Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Jumpers, from page 426
Comb-style jumper bar, page 426
Testing accessories, from page 420
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1
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Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)
------	---------	----------

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)
------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

gray	280-404	100 (25)
------	---------	----------

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50
-----	---------	----

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

plain	793-5501	5
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Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5
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4-Conductor Disconnect/Test Terminal Block without/with Shield Contact

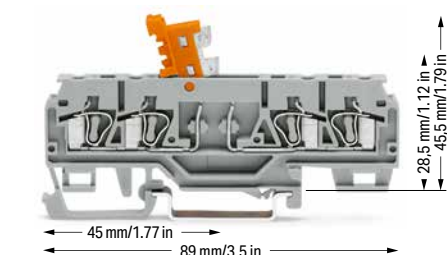
2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	600 V, 15 A ②
I _N 16 A	300 V, 15 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



4-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-874	100

Gray terminal block housing
Gray disconnect link

gray	280-881	100
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Blue terminal block housing
Orange disconnect link

blue	280-885 ②	100
------	-----------	-----

Orange terminal block housing
Orange disconnect link

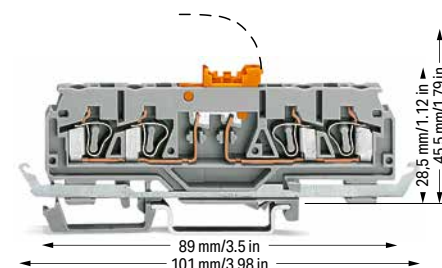
orange	280-883	100
--------	---------	-----

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
250 V / 4 kV / 3 ①	600 V, 15 A ②
I _N 16 A	300 V, 15 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



4-conductor disconnect/test terminal block; with test port; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-875	100

Gray terminal block housing
Gray disconnect link

gray	280-882	100
------	---------	-----

Orange terminal block housing
Orange disconnect link

blue	280-884	100
------	---------	-----

*12 AWG: THHN, THWN

- ① 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree (see Section 15)

- ② Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings, visit www.wago.com

6

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-373	100 (25)
gray	280-376	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
-----------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)
--------	---------	----------

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)
--------	---------	---------

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)
-------	---------	----------

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1
--------	---------	---

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

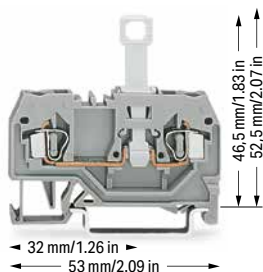
red	210-136	50
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Disconnect/Test Terminal Block; with Disconnect Tab

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 10 A	300 V, 15 A 
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



2-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
 gray	280-912	50
 blue	280-914	50
 orange	280-913	50

Other terminal blocks with the same profile:

Through	280-901	Page 314
---------	---------	----------

Accessories; item-specific

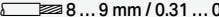
End and intermediate plate; 2.5 mm thick

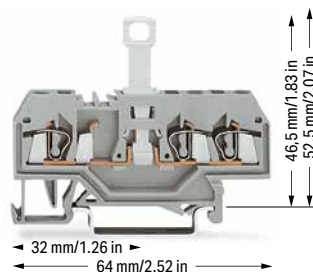
	orange	280-309	100 (25)
	gray	280-308	100 (25)
	light gray	280-356	100 (25)

Separator; oversized; 2 mm thick

	orange	280-311	100 (25)
	gray	280-310	100 (25)
	light gray	280-357	100 (25)

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 10 A	600 V, 15 A 
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



3-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
 gray	280-683	50

Other terminal blocks with the same profile:

Through	280-681	Page 314
---------	---------	----------

Accessories; item-specific

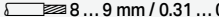
End and intermediate plate; 2.5 mm thick

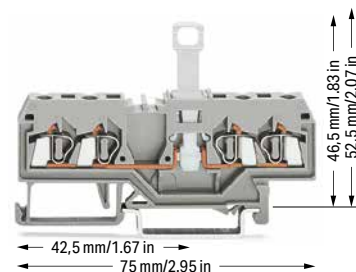
	orange	280-326	100 (25)
	gray	280-324	100 (25)
	light gray	280-358	100 (25)

Separator; oversized; 2 mm thick

	orange	280-346	100 (25)
	gray	280-344	100 (25)
	light gray	280-359	100 (25)

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 10 A	600 V, 15 A 
Terminal block width: 5 mm / 0.197 inch	
 8 ... 9 mm / 0.31 ... 0.35 inch	



4-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
 gray	280-836	50
 blue	280-839	50
 orange	280-805	50

Other terminal blocks with the same profile:

Through	280-833	Page 314
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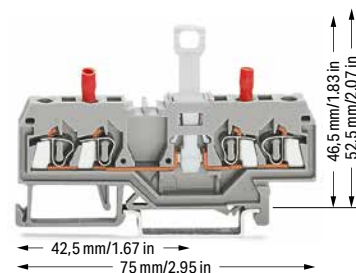
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-315	100 (25)
	gray	280-314	100 (25)
	light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

	orange	280-335	100 (25)
	gray	280-334	100 (25)
	light gray	280-353	100 (25)



2-conductor disconnect/test terminal block; with disconnect tab; with integrated test sockets

Color	Item No.	Pack. Unit
 gray	280-829	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	280-315	100 (25)
	gray	280-314	100 (25)
	light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

	orange	280-335	100 (25)
	gray	280-334	100 (25)
	light gray	280-353	100 (25)

*12 AWG: THHN, THWN

- ① 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	280-471	200 (25)
---	------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

	dark gray	280-472	200 (25)
---	-----------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	280-415	100 (25)
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Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

	2-way	280-482	200 (25)
	3-way	280-483	200 (25)
	10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

	2-way	280-492	200 (25)
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Operating tool; insulated

	2-way	280-432	1
	3-way	280-433	1
	10-way	280-440	1

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

	red	709-170	200 (25)
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Test socket; insulated; 2 mm Ø

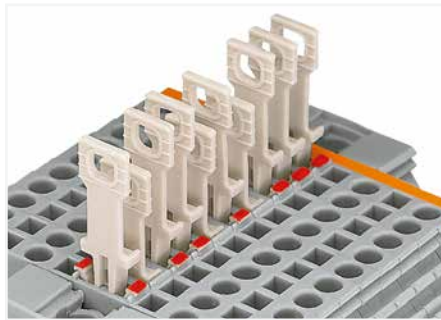
	red	209-107	
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Test socket; insulated; 2.3 mm Ø

	yellow	209-108	100 (25)
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Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

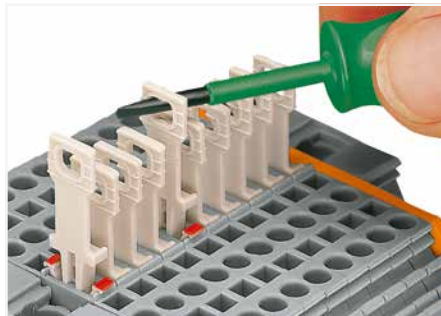
	red	210-136	50
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Disconnect terminal block with colored tab to indicate the switching status
(red = disconnected)



Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.



Pulling the disconnect tab via operating tool.



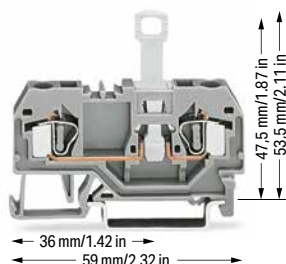
Pulling the disconnect tab by hand.

Disconnect/Test Terminal Block; with Disconnect Tab

4 mm²; 281 Series

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 10 A	300 V, 15 A 
Terminal block width: 6 mm / 0.236 inch	
 9 ... 10 mm / 0.35 ... 0.39 inch	

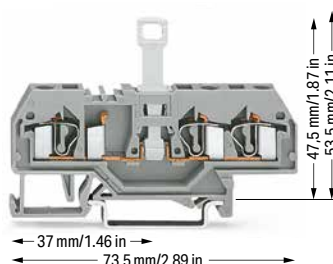


2-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
 gray	281-912	50

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 10 A	300 V, 15 A 
Terminal block width: 6 mm / 0.236 inch	
 9 ... 10 mm / 0.35 ... 0.39 inch	

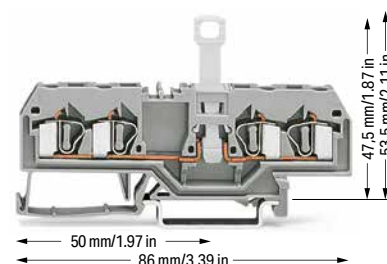


3-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
 gray	281-683	50

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 10 A	300 V, 15 A 
Terminal block width: 6 mm / 0.236 inch	
 9 ... 10 mm / 0.35 ... 0.39 inch	



4-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
 gray	281-659	50
 blue	281-660	50

Other terminal blocks with the same profile:

Through	281-901	Page 318
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Other terminal blocks with the same profile:

Through	281-681	Page 318
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Other terminal blocks with the same profile:

Through	281-652	Page 318
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Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	281-329	100 (25)
	gray	281-328	100 (25)
	light gray	281-349	100 (25)

Separator; oversized; 2 mm thick

	orange	281-331	100 (25)
	gray	281-330	100 (25)
	light gray	281-350	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	281-326	100 (25)
	gray	281-324	100 (25)
	light gray	281-355	100 (25)

Separator; oversized; 2 mm thick

	orange	281-346	100 (25)
	gray	281-344	100 (25)
	light gray	281-356	100 (25)

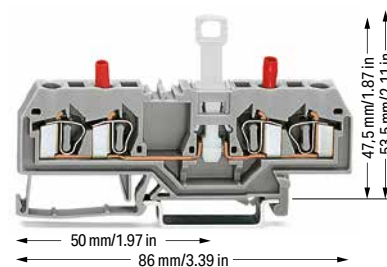
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	281-335	100 (25)
	gray	281-334	100 (25)
	light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

	orange	281-339	100 (25)
	gray	281-338	100 (25)
	light gray	281-347	100 (25)



2-conductor disconnect/test terminal block; with disconnect tab; with integrated test sockets

Color	Item No.	Pack. Unit
 gray	281-666	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	281-335	100 (25)
	gray	281-334	100 (25)
	light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

	orange	281-339	100 (25)
	gray	281-338	100 (25)
	light gray	281-347	100 (25)

- ① 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	281-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	281-471	200 (25)
---	------------	---------	----------

Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

	dark gray	281-472	200 (25)
---	-----------	---------	----------

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	281-415	100 (25)
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Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	281-482	100 (25)
	3-way	281-483	100 (25)
	5-way	281-485	100 (25)
	10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	281-492	100 (25)
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Operating tool; insulated

	2-way	280-432	1
	3-way	280-433	1
	10-way	281-440	1

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

	red	709-170	200 (25)
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Test socket; insulated; 2 mm Ø

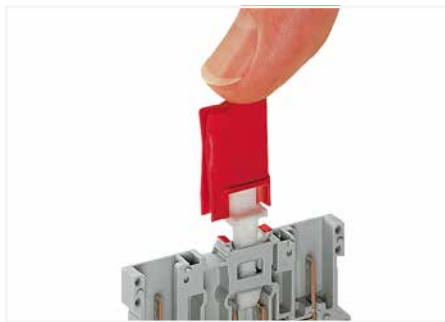
	red	209-107	
---	-----	---------	--

Test socket; insulated; 2.3 mm Ø

	yellow	209-108	100 (25)
---	--------	---------	----------

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

	red	210-136	50
---	-----	---------	----



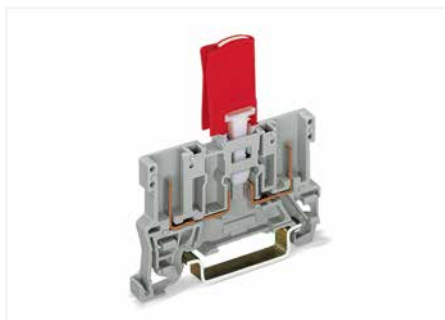
Installing a disconnect lock on the terminal block's disconnect tab (picture shows a 2-pin disconnect carrier terminal block, 769 Series).



Unlocking a disconnect lock.



Removing a disconnect lock.



Double Safety:

The disconnect tab has been designed for maximum operational safety.

As soon as the disconnect tab is in the disconnect position, it can be protected against unintentional reconnection by using the disconnect lock. Only through intentional and focused use of a tool, can the disconnect lock be removed and the circuit reconnected.

Features/Benefits:

- Easy to use
- Install/remove disconnect lock with just one hand
- Clearly identify disconnect tab position
- Higher safety
- Intentional effort is required to reconnect the circuit

Disconnect/Test Terminal Blocks; for Current and Voltage Transformer Circuits

282 Series

Description and Installation



Inserting an insulated, touch-proof adjacent jumper into the protected shorting position.



Terminal strip permanently prepared for current transformer circuits.

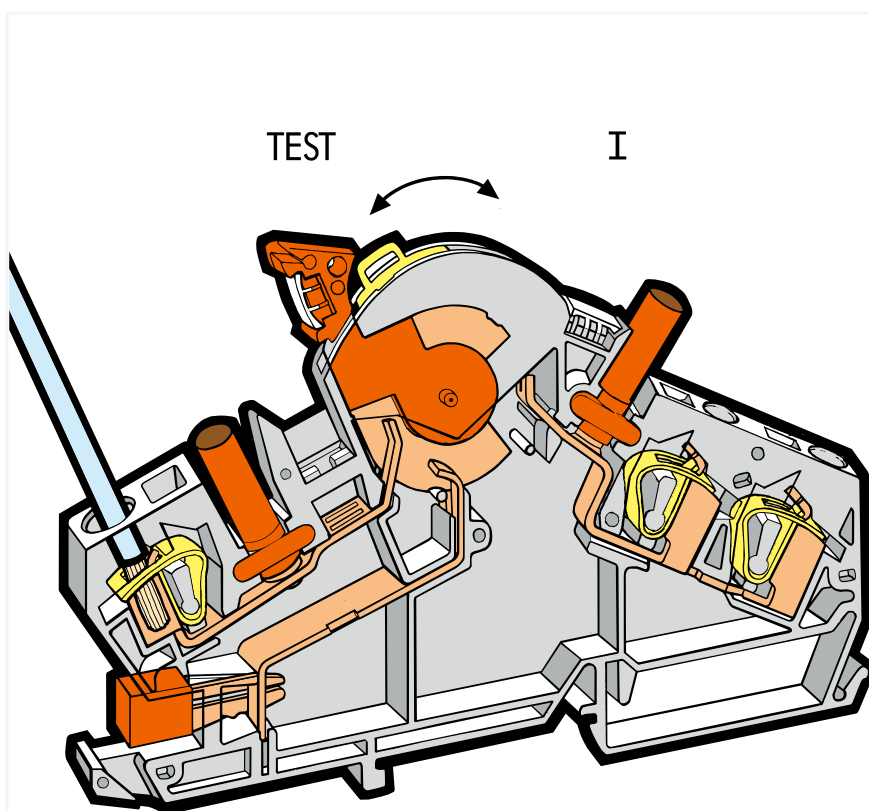


Lock-out snaps into one of two notched positions, preventing accidental operation of the disconnect link.



Snapping a transparent locking cover onto 1-8 disconnect links:

- a) Mechanically lock several links for multi-pole switching applications
- b) Protect markers



Interlocking link mechanically locks multiple links for multi-pole switching applications.



Touch-proof test sockets for touch-proof 4 mm Ø test plugs (not available from WAGO, but are offered by industry suppliers such as, Fabrikat Multi-Contact)



Labeling via WMB Multi Marking System.



CAGE CLAMP® terminates the following copper conductors:
solid "s"

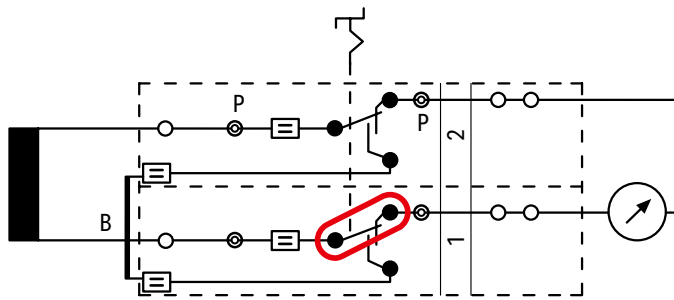


stranded "st"



fine-stranded "f-st",
also with tinned
single strands

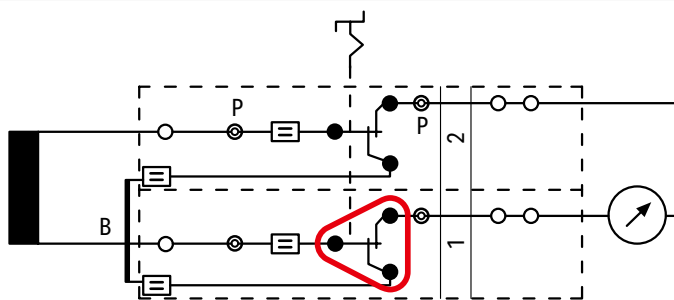
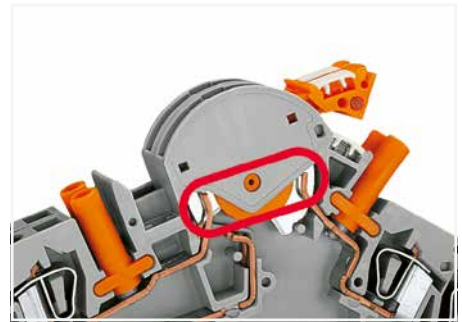
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Disconnect link in notched "I" position

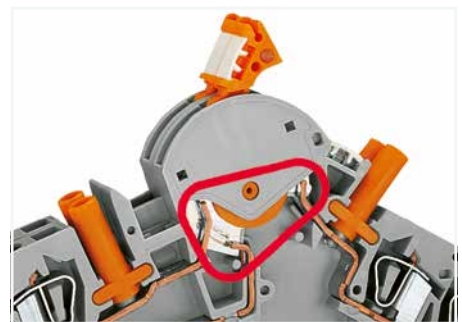
In "I" operating position, the measurement device is connected to the transformer.

B = shorting jumper, P = test socket

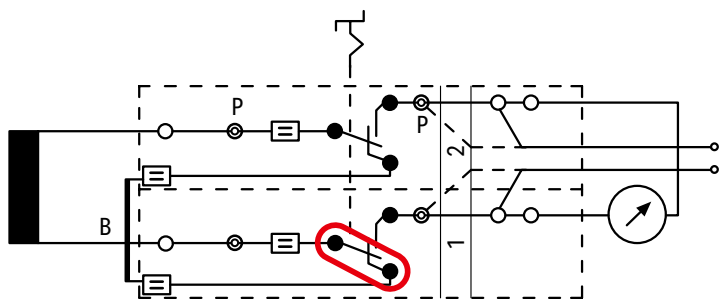


Disconnect link in transition from "I" to "TEST" (terminal blocks 1 + 2)

The transformer is not disconnected from the measurement device, yet the shorting path is activated by moving the disconnect link from "I" to "TEST."

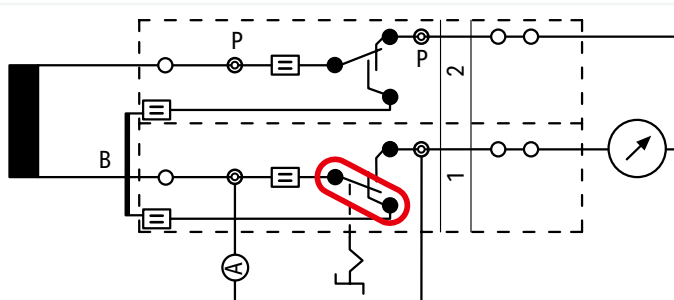


6



Disconnect link in notched "TEST" position (terminal blocks 1 + 2)

The measurement device/relay is electrically disconnected from the transformer. If required, external voltage can be applied to the measurement device/relay via the test socket, or the 2nd CAGE CLAMP® connection.



Disconnect link in notched position "I" (terminal block 2) Disconnect link in notched position "TEST" (terminal block 1) – measurement testing

Before moving the disconnect link of terminal block 1 into the notched "TEST" position, the reference current meter must be inserted into the test socket of terminal block 1.



fine-stranded,
tip-bonded



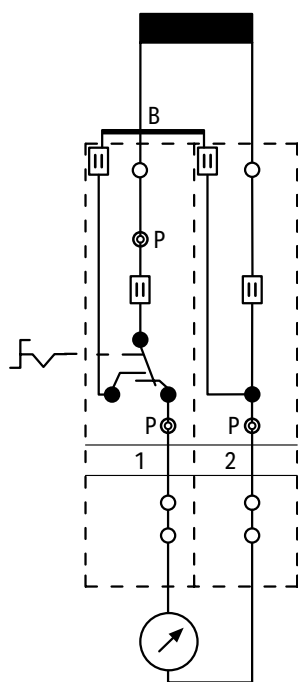
fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Circuit Configuration Examples

6



Measuring set for a single-phase current transformer
(without measurement testing)



Terminal blocks required:

- 1 x disconnect/test terminal block (282-870)
- 1 x through terminal block (282-865)
- 1 x jumper, orange (282-424)
- 1 x end plate, orange (282-386)
- In addition: locking cover, lock-out

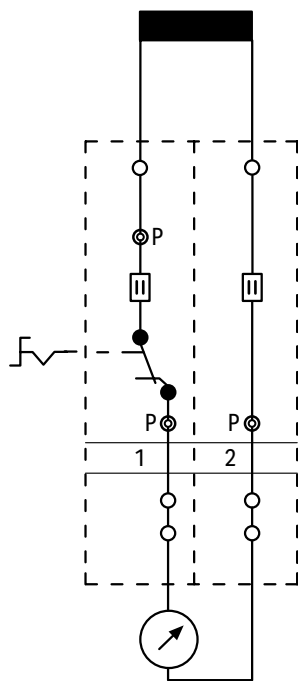


Additional commoning possible with circuit-related adjacent jumpers or testing option via test plug adapter (209-170) on transformer side.



CAGE CLAMP® connection

Inserting a conductor via operating tool (5.5 x 0.8 mm blade).



Measuring set for a single-phase voltage transformer



Terminal blocks required:

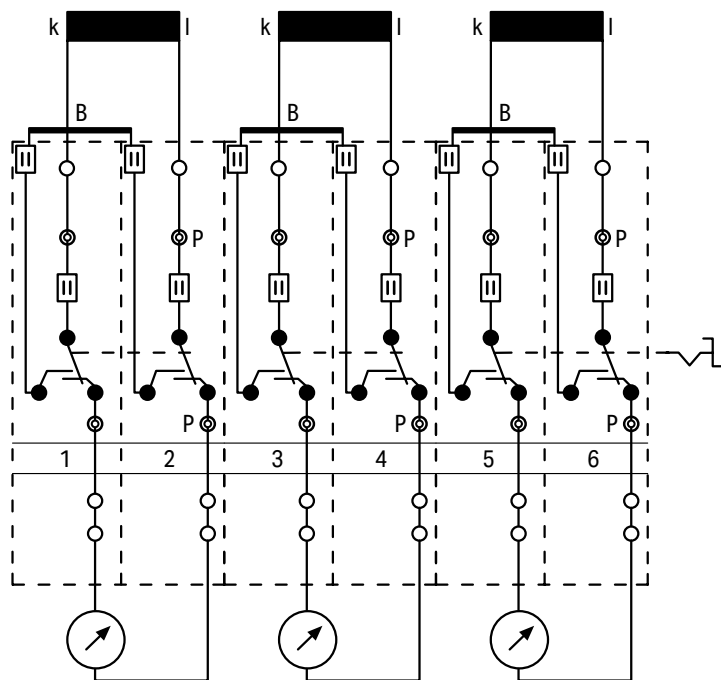
- 1 x disconnect/test terminal block (282-860)
- 1 x through terminal block (282-866)
- 1 x end plate, orange (282-386)
- In addition: locking cover, lock-out



A lock-out seal can be used on the disconnect link in notched "I" position.



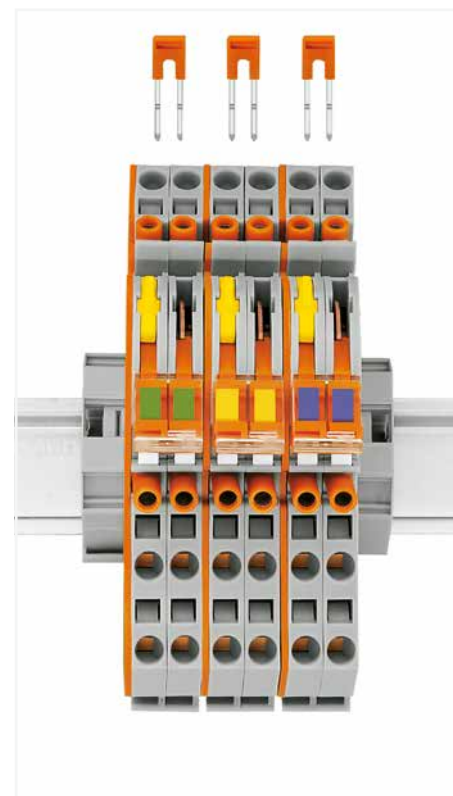
Additional CAGE CLAMP® connection on the measurement device side, e.g., when connecting wire commoning chains or applying an external voltage.



Measuring set for a three-phase current transformer

Pairs of disconnect links are interconnected via interlocking link or locking cover. Measurement testing is performed after the interlocking is released.

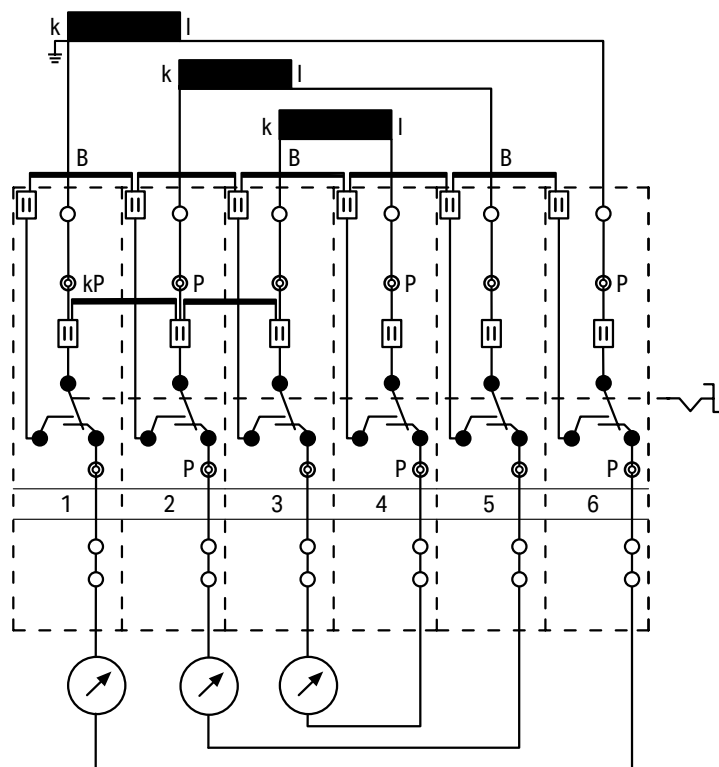
B = shorting jumper, P = test socket



6

Terminal blocks required:

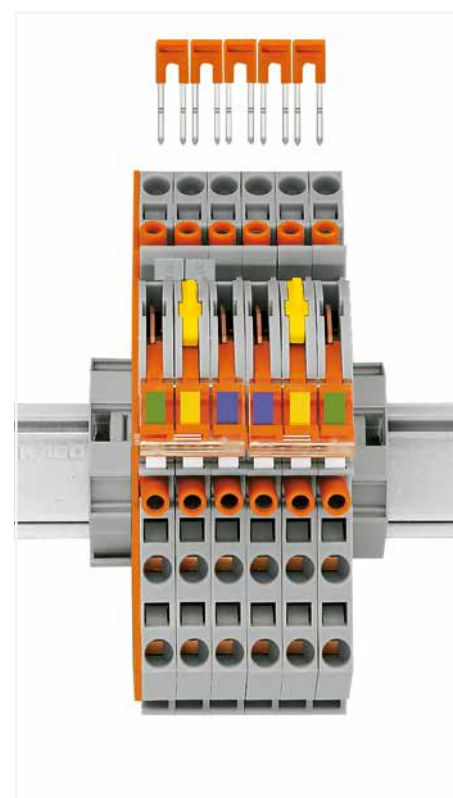
- 6 x disconnect/test terminal block (282-870)
- 3 x jumper, orange (282-424)
- 3 x end plate, orange (282-386)
- In addition: interlocking link, locking cover, lock-out



Measuring set for a three-phase current transformer with 'Y' point

All six disconnect links are interconnected via interlocking link.

kP = 'Y' point jumper



Terminal blocks required:

- 6 x disconnect/test terminal block (282-870)
- 5 x jumper, orange (282-424)
- 2 x jumper, gray (282-402)
- 1 x end plate, orange (282-386)
- In addition: interlocking link, locking cover, lock-out

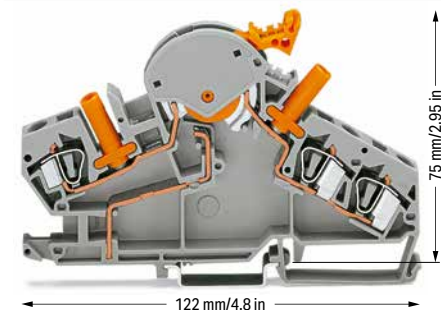
Disconnect/Test Terminal Block, Through/Ground Conductor Terminal Block; for Current and Voltage Transformer Circuits 6 mm²; 282 Series

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 5 A ③

Terminal block width: 8 mm / 0.315 inch

12 ... 13 mm / 0.47 ... 0.51 inch



Disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs; e.g., for current transformer circuits; orange disconnect link

Color	Item No.	Pack. Unit
○ gray	282-870 ② ③	20

Accessories; item-specific

End and separator plate; 1.5 mm thick; without lock-out seal option

	orange	282-386	50 (10)
	gray	282-391	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option

	orange	282-387	50 (10)
	gray	282-392	50 (10)

Lock-out device; for disconnect link

	yellow	282-384	100 (20)
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Locking cover; mechanically locks multiple links; transparent

	1-pole	282-881	50 (10)
	2-pole	282-882	50 (10)
	3-pole	282-883	50 (10)
	4-pole	282-884	50 (10)
	5-pole	282-885	50 (10)
	6-pole	282-886	50 (10)
	7-pole	282-887	50 (10)
	8-pole	282-888	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long

	transparent	210-254	1
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Adjacent jumper; insulated; I_N 41 A

	orange	282-424	100 (25)
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WMB marking card; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm; yellow

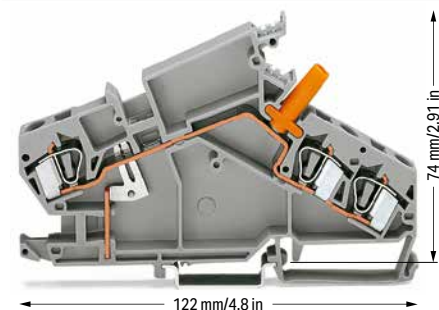
	k/l (50x)	794-5553/000-002	5
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Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 5 A ③

Terminal block width: 8 mm / 0.315 inch

12 ... 13 mm / 0.47 ... 0.51 inch



Through terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for current transformer circuits

Color	Item No.	Pack. Unit
○ gray	282-865 ③	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick

	orange	282-385	50 (10)
	gray	282-390	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm; yellow

	k/l (50x)	794-5553/000-002	5
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Adjacent jumper; insulated; I_N 41 A

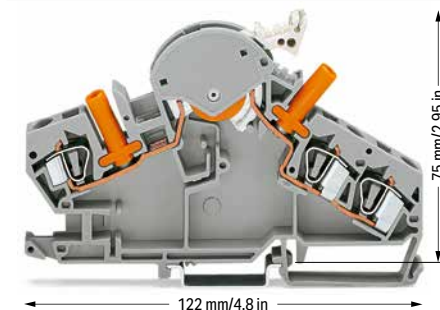
	orange	282-424	100 (25)
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Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 5 A ③

Terminal block width: 8 mm / 0.315 inch

12 ... 13 mm / 0.47 ... 0.51 inch



Disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs; e.g., for voltage transformer circuits; light gray disconnect link

Color	Item No.	Pack. Unit
○ gray	282-860 ② ③	20

Accessories; item-specific

End and separator plate; 1.5 mm thick; without lock-out seal option

	orange	282-386	50 (10)
	gray	282-391	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option

	orange	282-387	50 (10)
	gray	282-392	50 (10)

Lock-out device; for disconnect link

	yellow	282-384	100 (20)
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Locking cover; mechanically locks multiple links; transparent

	1-pole	282-881	50 (10)
	2-pole	282-882	50 (10)
	3-pole	282-883	50 (10)
	4-pole	282-884	50 (10)
	5-pole	282-885	50 (10)
	6-pole	282-886	50 (10)
	7-pole	282-887	50 (10)
	8-pole	282-888	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long

	transparent	210-254	1
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WMB marking card; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm; blue

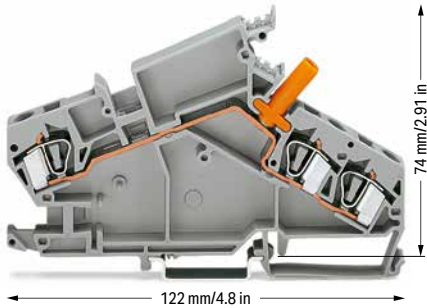
	U/V (50x)	794-5554/000-006	5
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Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 5 A ③

Terminal block width: 8 mm / 0.315 inch

12 ... 13 mm / 0.47 ... 0.51 inch

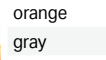


Through terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for voltage transformer circuits

Color	Item No.	Pack. Unit
○ gray	282-866 ④	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick

	orange	282-385	50 (10)
	gray	282-390	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm; blue

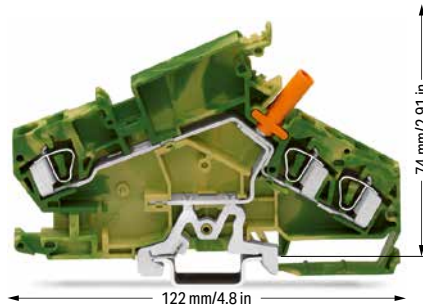
	U/V (50x)	794-5554/000-006	5
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Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
---------------------------	---------------

Terminal block width: 8 mm / 0.315 inch

12 ... 13 mm / 0.47 ... 0.51 inch

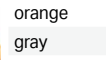


Ground conductor terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for voltage transformer circuits

Color	Item No.	Pack. Unit
○ gray	282-868 ④	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick

	orange	282-385	50 (10)
	gray	282-390	50 (10)

- 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
 - Max. height when rotating the disconnect link (incl. locking cover): 92 mm/3.62 inch
 - For operating stickers, please refer to our online catalog:
 - for 282-870: Item No. 210-412
 - for 282-865: Item No. 210-415
 - for 282-860: Item No. 210-414
 - for 282-866: Item No. 210-413
- Approvals and corresponding ratings, visit www.wago.com

Accessories; 282 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	282-415	100 (25)
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Adjacent jumper; insulated; I_N 41 A

	gray	282-402	100 (25)
	yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

	gray	282-409	100 (25)
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Wire commoning chain; insulated; 4 connections; 3 x 110 mm; I_N 24 A

	black	709-110	1
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Wire commoning chain; insulated; 3 connections; 2 x 120 mm; I_N 24 A

	black	709-111	1
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Wire commoning chain; insulated; 3 connections; 2 x 170 mm; I_N 24 A

	black	709-112	1
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Group marker carrier; e.g., for 282 Series; angled

	gray	209-144	50 (25)
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WMB marking card; white; 10 strips with 10 markers/card; for 5 ... 17.5 mm terminal block width

	plain	793-501	5
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CAGE CLAMP®

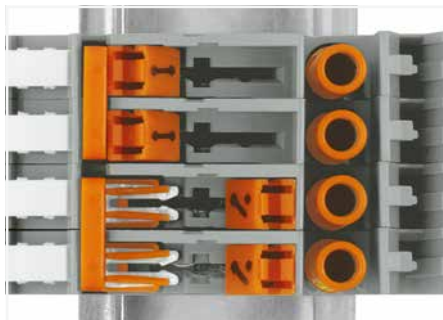
Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks

282 Series

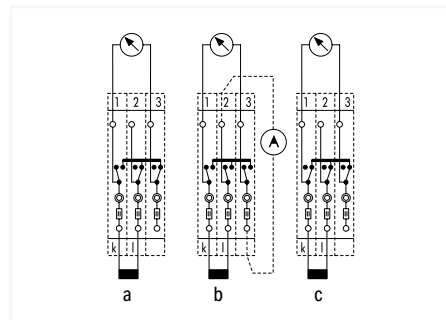
Description and Installation



Transverse switching terminal blocks
Left: Adjacent jumper for commoning of switching lever
Right: Commoning with orange jumper



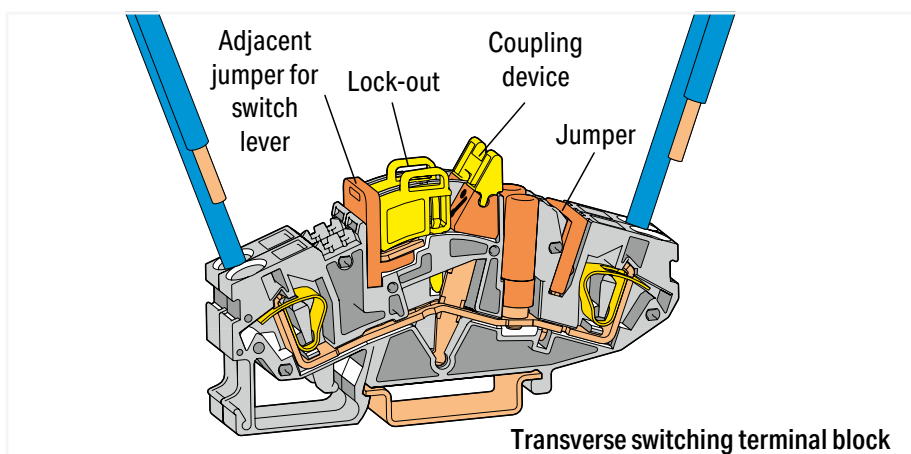
Switch positions
Left: closed
Right: open



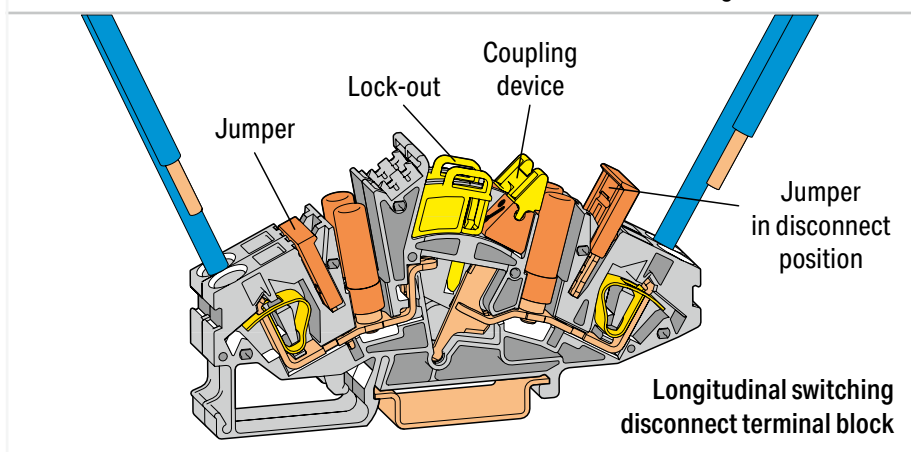
Current transformer circuit with transverse switching terminal blocks
a = Normal operation b = Transformer short circuit
c = Transformer short circuit



Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).



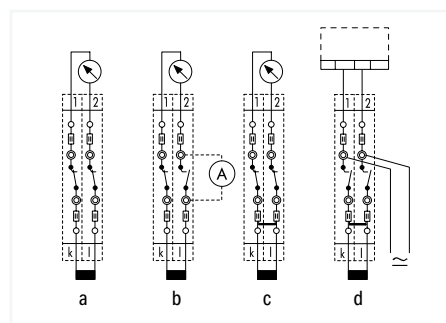
CAGE CLAMP® connection
Inserting a conductor.



Inserting a lock-out.



Longitudinal switching disconnect terminal blocks



Current transformer circuit with longitudinal switching disconnect terminal blocks
a = Normal operation b = Measured value test
c = Transformer short circuit d = Relay test



CAGE CLAMP® terminates the following copper conductors:
solid "s"



stranded "st"



fine-stranded "f-st",
also with tinned
single strands

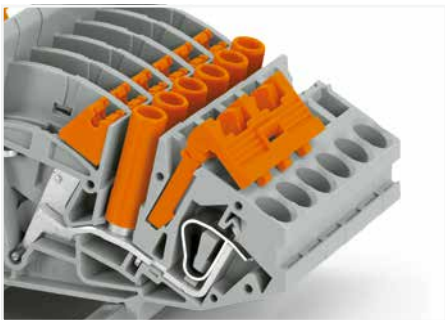
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

WAGO

Jumpers with Safety Lid; for Longitudinal Switching Disconnect Terminal Blocks 282 Series



Jumper with safety lid
Jumper in pre-locked position



Jumper with safety lid
Longitudinal switching disconnect terminal blocks with
inserted jumper, including safety lid



Jumper with safety lid
Jumper with raised safety lid



Jumper with safety lid
Removing a jumper via safety lid.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)

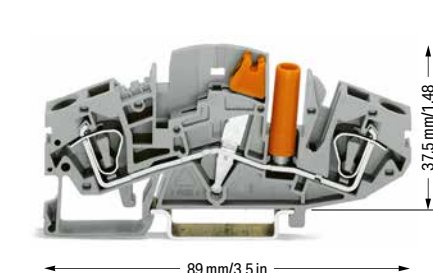


fine-stranded,
with pin terminal
(gastight crimped)

Transverse Switching Terminal Block, Longitudinal Switching Disconnect Terminal Block and Through Terminal Block (e.g., for Current Transformer Circuits) 6 mm²; 282 Series

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 36 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor disconnect/test terminal block; transverse switching; with touch-proof test socket; for 4 mm Ø test plug

Color	Item No.	Pack. Unit
○ gray	282-811 ②	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

	orange	282-366	50 (10)
	gray	282-361	50 (10)

Lock-out device; for disconnect link

	yellow	282-370	100 (25)
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Coupling device; mechanically locks multiple links; yellow

	2-way	282-372	50 (10)
	3-way	282-373	50 (10)
	4-way	282-374	50 (10)

Adjacent jumper for switching lever; insulated; I_N 30 A; orange

	2-way	282-442	50 (10)
	3-way	282-443	50 (10)
	4-way	282-444	50 (10)
	5-way	282-445	50 (10)
	6-way	282-446	50 (10)

Accessories; 282 Series

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

	yellow	282-415	100 (20)
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Jumper; insulated; I_N 30 A; orange

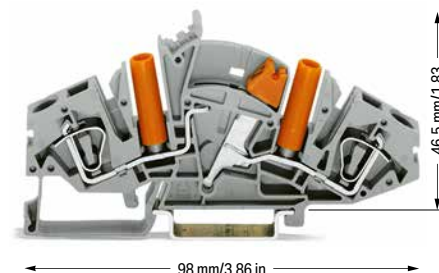
	2-way	282-432	50 (10)
	3-way	282-433	50 (10)
	4-way	282-434	50 (10)
	5-way	282-435	50 (10)
	6-way	282-436	50 (10)
	7-way	282-437	50 (10)
	8-way	282-438	50 (10)
	9-way	282-439	50 (10)
	10-way	282-440	50 (10)

Jumper with safety lid; insulated; I_N 30 A; orange

	2-way	282-432/100-000	50 (10)
	3-way	282-433/100-000	50 (10)
	4-way	282-434/100-000	50 (10)

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 36 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor disconnect/test terminal block; longitudinal switching; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
○ gray	282-821 ②	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

	orange	282-365	50 (10)
	gray	282-360	50 (10)

Lock-out device; for disconnect link

	yellow	282-370	100 (25)
--	--------	---------	----------

Coupling device; mechanically locks multiple links; yellow

	2-way	282-372	50 (10)
	3-way	282-373	50 (10)
	4-way	282-374	50 (10)

Appropriate marking systems: WMB/WMB Inline/WFB

Jumper; insulated; I_N 30 A; orange

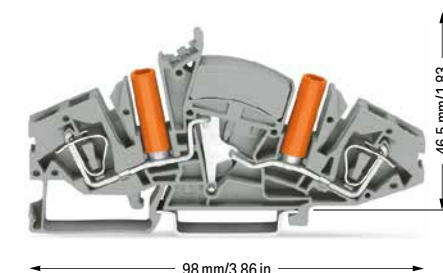
	1-3	282-433/011-000	50 (10)
	1-3-5	282-435/011-000	50 (10)
	1-4-5	282-435/301-000	50 (10)
	1-3-4-5	282-435/300-000	50 (10)
	1-2-4-6	282-436/301-000	50 (10)
	1-4-6	282-436/304-000	50 (10)
	1-3-5-7	282-437/011-000	50 (10)
	1-4-7	282-437/012-000	50 (10)
	1-2-5-8	282-438/300-000	50 (10)
	1-4-7-8	282-438/301-000	50 (10)
	1-3-5-7-9	282-439/011-000	50 (10)

Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)

	gray	282-369	25
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Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
500 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 30 A	300 V, 36 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor through terminal block; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
○ gray	282-841	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

	orange	282-365	50 (10)
	gray	282-360	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm; yellow

	k/I (50x)	794-5553/000-002	5
--	-----------	------------------	---

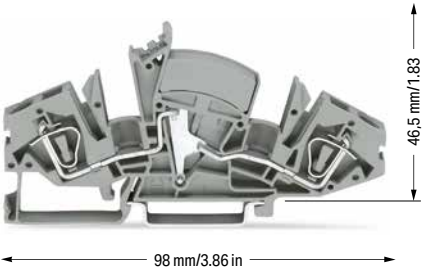
WMB marking card; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm; blue

	U/V (50x)	794-5554/000-006	5
--	-----------	------------------	---

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

	plain	793-5501	5
--	-------	----------	---

Technical Data	
0.2 ... 6 mm²	24 ... 10 AWG
500 V / 6 kV / 3 ①	
I _N 30 A	
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	



2-conductor through terminal block; without test sockets

Color	Item No.	Pack. Unit
gray	282-841/049-000	20

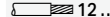
Accessories; item-specific			
End and separator plate; 1.5 mm thick			
	orange	282-365	50 (10)
	gray	282-360	50 (10)

- ① 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- ② Max. height when rotating the disconnect link (incl. locking cover): 45 mm / 1.77 inch
For operating stickers, please refer to our online catalog:
• for 282-811: Item No. 210-424
• for 282-821: Item No. 210-423
- Approvals and corresponding ratings,
visit www.wago.com

Disconnect Terminal Block and Ground Conductor Disconnect Terminal Block and Through Terminal Block of Same Profile

6 mm²; 282 Series

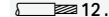
Technical Data

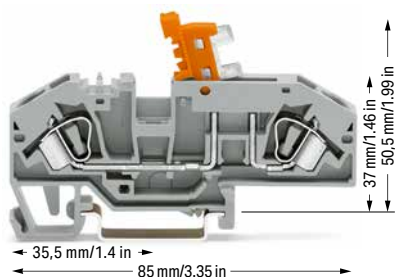
0.2 ... 6 mm ²	24 ... 10 AWG
400 V / 6 kV / 3 ①	600 V, 30 A 
I _N 30 A	300 V, 35 A 
Terminal block width: 8 mm / 0.315 inch	
 12 ... 13 mm / 0.47 ... 0.51 inch	

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
800 V / 8 kV / 3 ①	600 V, 30 A 
I _N 41 A	600 V, 35 A 
Terminal block width: 8 mm / 0.315 inch	
 12 ... 13 mm / 0.47 ... 0.51 inch	

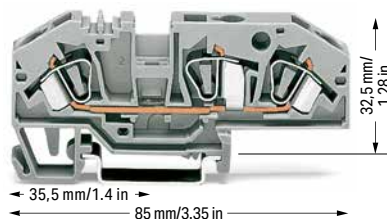
Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
Terminal block width: 16 mm / 0.63 inch	
 12 ... 13 mm / 0.47 ... 0.51 inch	



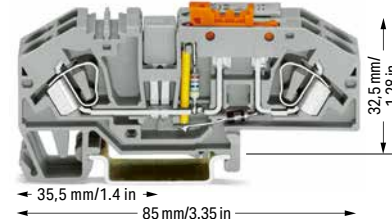
2-conductor disconnect terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
○ gray	282-697	25
● blue	282-695	25



3-conductor through terminal block; with test point; same profile as disconnect terminal blocks

Color	Item No.	Pack. Unit
○ gray	282-699	25
● blue	282-694	25



Ground conductor disconnect terminal block; with test point; orange disconnect link; gray

	Item No.	Pack. Unit
○ 24 V	282-640	12
○ 48 V	282-641	12
○ 120 V	282-638	12
○ 230 V	282-639	12

Other terminal blocks with the same profile:

Through	282-699	Page 368
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Other terminal blocks with the same profile:

Disconnect	282-697	Page 368
Ground cond. disc.	282-640	Page 368
Fuse	282-696	Page 330

Other terminal blocks with the same profile:

Through	282-699	Page 368
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Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

	gray	282-402	100 (25)
---	------	---------	----------

Alternate jumper; insulated; I_N 41 A

	gray	282-409	100 (25)
---	------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

	gray	209-170	50 (25)
---	------	---------	---------

B-type test plug module; snaps together; 8 mm wide

	gray	709-310	100 (25)
---	------	---------	----------

B-type spacer module; snaps together; 5 mm wide

	gray	709-311	100 (25)
---	------	---------	----------

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

	gray	282-402	100 (25)
---	------	---------	----------

Alternate jumper; insulated; I_N 41 A

	gray	282-409	100 (25)
---	------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

	gray	209-170	50 (25)
---	------	---------	---------

B-type test plug module; snaps together; 8 mm wide

	gray	709-310	100 (25)
---	------	---------	----------

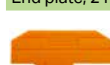
B-type spacer module; snaps together; 5 mm wide

	gray	709-311	100 (25)
---	------	---------	----------

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End plate; 2 mm thick

	orange	282-333	100 (25)
	gray	282-334	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

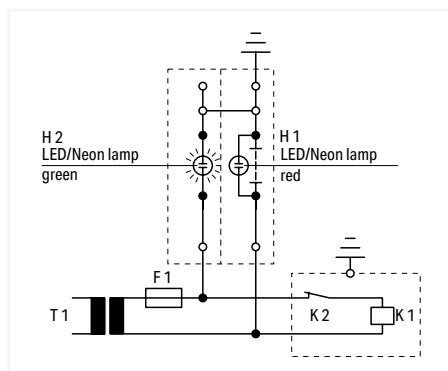
	yellow	282-415	100 (25)
--	--------	---------	----------

- ① 400 V / 800 V = rated voltage
6 kV / 8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Approvals and corresponding ratings,
visit www.wago.com

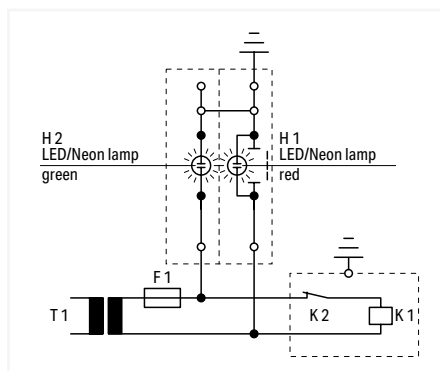


Ground conductor disconnect terminal block – top view



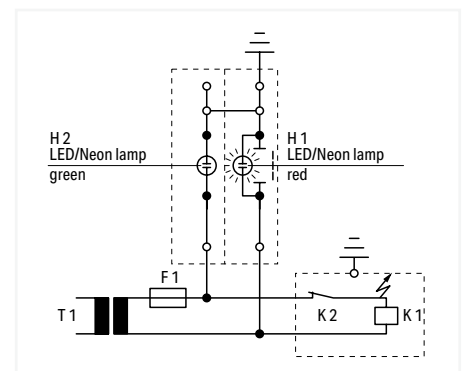
Operating condition

Slide link closed, auxiliary circuit grounded,
green LED/neon lamp illuminates.



Test condition – no grounding

Slide link open, auxiliary circuit not grounded.



Test condition – grounding

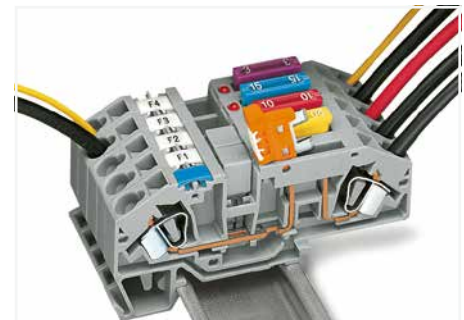
Slide link open, auxiliary circuit not grounded, red LED/
neon lamp illuminates.



Testing via conductor entry.



Testing via jumper contact slot.



Power supply via disconnect link – disconnecting all out-
puts.

IEC 60204/DIN VDE 0113 "Safety of machinery – Electrical
equipment of machines – Part 1: General requirements,"
Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.

In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

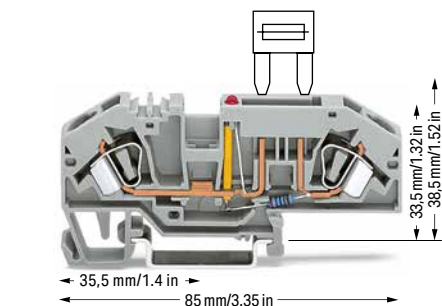
Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

Fuse Terminal Block for Automotive Blade-Style Fuses

6 mm²; 282 Series

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
400 V / 6 kV / 3 ①	12 V, 30 A ②
I _N 25 A (30 A) ②	12 V, 30 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	

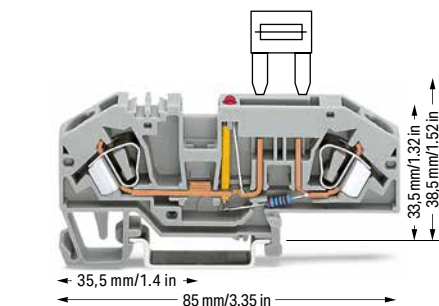


282-698/281-429

282-698/281-449

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
400 V / 6 kV / 3 ①	24 V, 30 A ②
I _N 25 A (30 A) ②	24 V, 30 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	

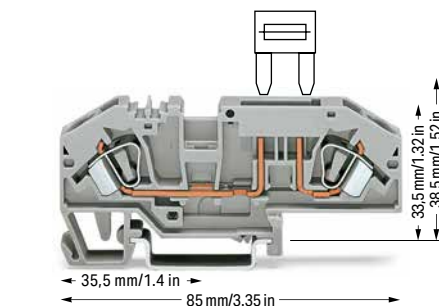


282-698/281-413

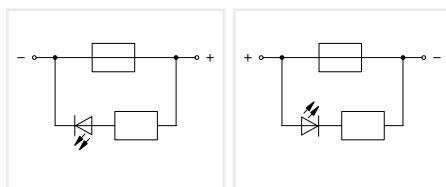
282-698/281-434

Technical Data

0.2 ... 6 mm ²	24 ... 10 AWG
400 V / 6 kV / 3 ①	600 V, 30 A ②
I _N 25 A (30 A) ②	24 V, 30 A ③
Terminal block width: 8 mm / 0.315 inch	
12 ... 13 mm / 0.47 ... 0.51 inch	

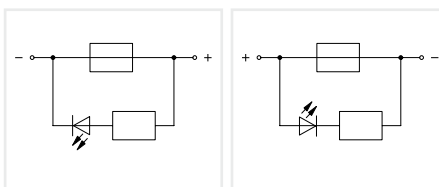


282-696



2-conductor fuse terminal block for automotive blade-style fuses; 12 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA. Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-698/281-429	25
gray	282-698/281-449	25



2-conductor fuse terminal block for automotive blade-style fuses; 24 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA. Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-698/281-413	25
gray	282-698/281-434	25



2-conductor fuse terminal block for automotive blade-style fuses; with test point; without blown fuse indication; Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-696	25

Other terminal blocks with the same profile:

Through	282-699	Page 368
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Accessories; 282 Series

Appropriate marking systems: WMB/Marking strips

End plate; 2 mm thick

gray	282-333	100 (25)
orange	282-334	100 (25)

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)
------	---------	----------

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 ... 10 mm² terminal blocks

gray	209-170	50 (25)
------	---------	---------

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)
------	---------	----------

B-type spacer module; snaps together; 5 mm wide

gray	709-311	100 (25)
------	---------	----------

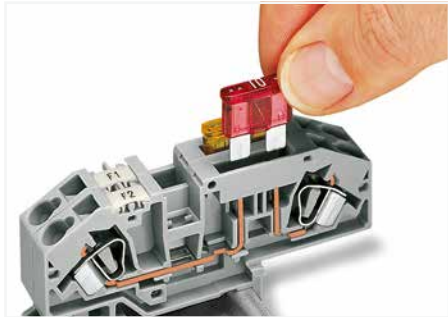
- ❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree

- ❷ LED power consumption: 4.8 mA

Blade-style fuses are not offered by WAGO.
Thermal automotive circuit breakers are not offered by WAGO.
WAGO recommends automotive circuit breakers from ETA.

Please observe the application notes:
Marking, from page 684

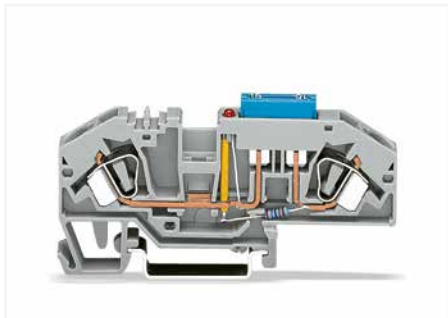
Approvals and corresponding ratings,
visit www.wago.com



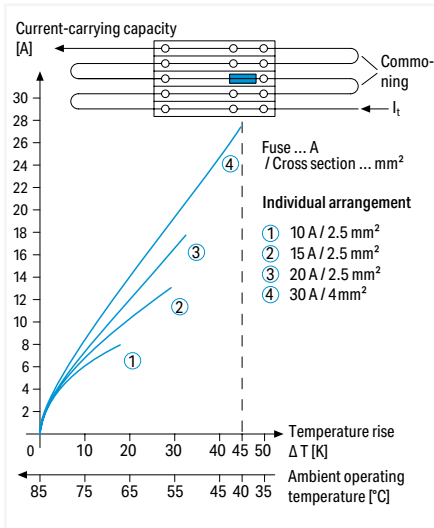
Inserting a fuse.



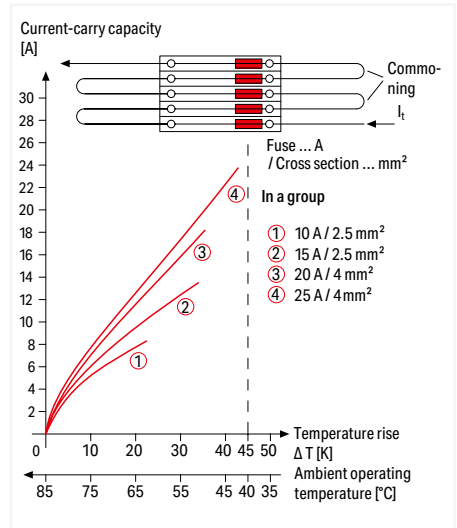
Blown fuse indication by LED



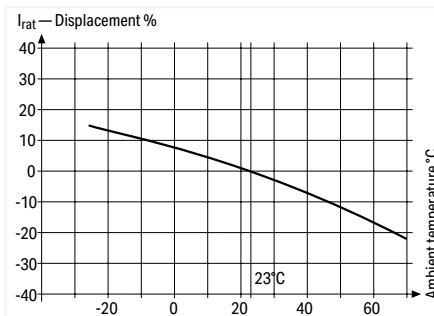
2-conductor fuse terminal block with mini-automotive blade-style fuse



Application Notes on Fuse Terminal Blocks
Diagram: Individual arrangement



Application Notes on Fuse Terminal Blocks
Diagram: Block arrangement



Application Notes on Fuse Terminal Blocks

Nominal current ratings for fuse cartridges are defined differently in international standards.

This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C).

Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).

Information from the mini-automotive, blade-type fuse manufacturers

Derating T_{amb} / °C	%	F_T
-25	14	0.877
-20	13	0.885
-15	12	0.893
-10	11	0.901
-5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	-2	1.020
35	-4	1.042
40	-6	1.064
45	-8	1.087
50	-10	1.111
55	-13	1.149
60	-16	1.190
65	-19	1.235
70	-22	1.282

With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder; for Glass Cartridge Fuses

282 Series

Description and Installation



Blown fuse indication by LED or neon lamp



Fuse replacement:
Before replacing a fuse, pivot the fuse holder into the locked open position.



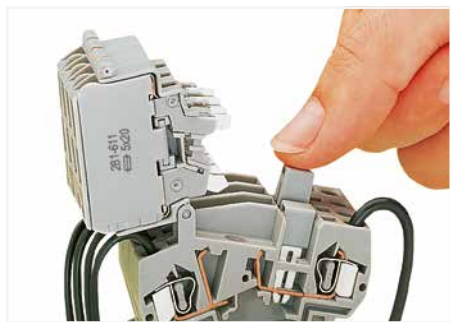
Fuse replacement:
One end of the fuse is automatically ejected from the holder when opening the cover.



CAGE CLAMP® connection

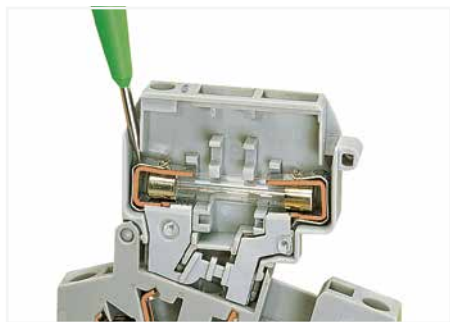
Inserting a conductor.

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

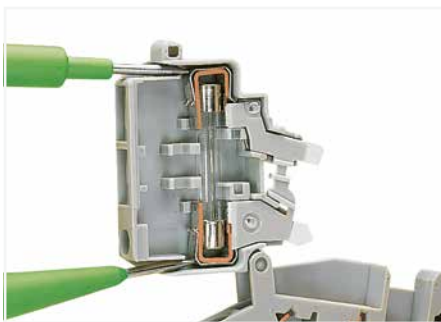


Commoning

Distributing current to several fuse-protected circuits via insulated push-in type jumpers.



Voltage test, either at input or output with fuse holder in closed position (live)



Through test with fuse holder in open position (no voltage)



Voltage test at input in the test slot of the current bar



CAGE CLAMP® terminates the following copper conductors: solid "s"



stranded "st"



fine-stranded "f-st", also with tinned single strands



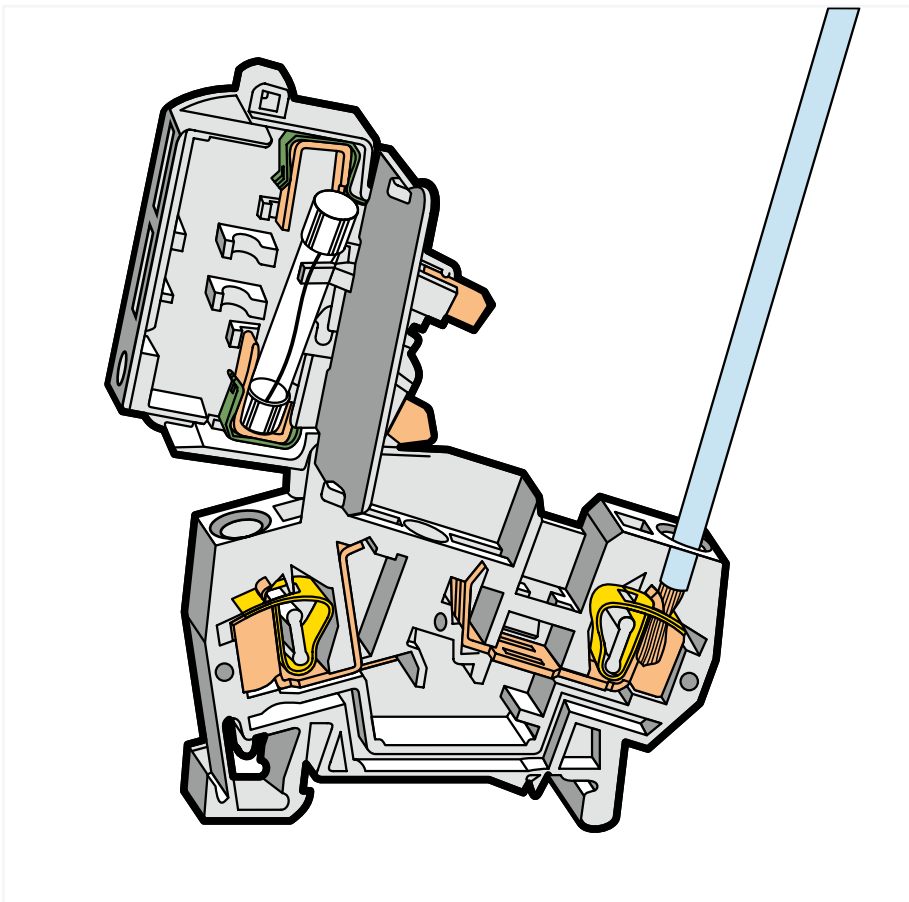
Fuse replacement:
Easily removing a fuse by hand.



Fuse replacement:
Insert a new fuse and snap the cover closed.



Storing a spare fuse (fuse holder without blown fuse indication) for the types of fuses 5 x 20 mm, 5 x 25 mm and 5 x 30 mm.



Touch-proof protection in all positions of the fuse holder



Fuse holder will remain safely locked open in vertical assemblies.



Testing voltage at the output via separate test slot.



Measuring current between jumper slot and separate test slot.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

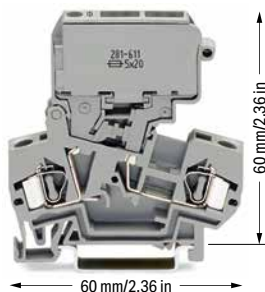
Fused Disconnect Terminal Block with a Pivoting Fuse Holder; for 5 x 20 mm, 5 x 25 mm and 5 x 30 mm Glass Cartridge Fuses 4 mm²; 281 Series

Technical Data

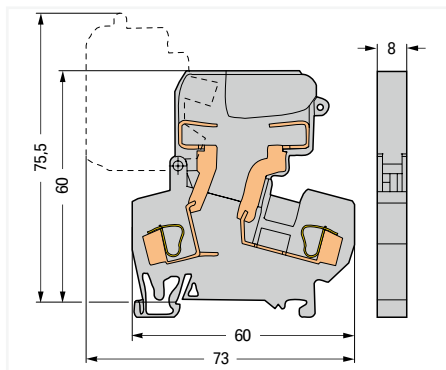
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ① ②	600 V, 10 A ① ②
I _N 10 A	600 V, 10 A ②

Terminal block width: 8 mm / 0.315 inch

9 ... 10 mm / 0.35 ... 0.39 inch



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-611	50
orange	281-616	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

gray	281-612	50
------	---------	----

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

gray	281-622	50
------	---------	----

Glass cartridge fuses are available upon request.

Technical Data

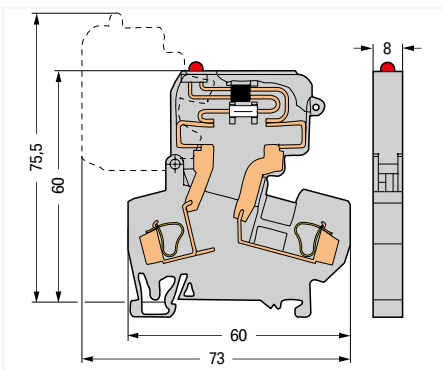
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ① ②	30 V, 10 A ① ②
I _N 10 A	230 V, 10 A ②

Terminal block width: 8 mm / 0.315 inch

9 ... 10 mm / 0.35 ... 0.39 inch



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

Color	Item No.	Pack. Unit
gray	281-611/281-541	50
gray	281-611/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

gray	281-612/281-541	50
gray	281-612/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

gray	281-622/281-541	50
gray	281-622/281-542	50

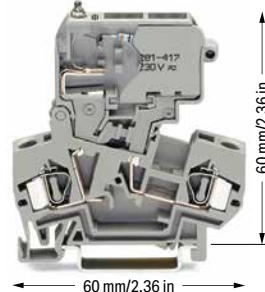
Glass cartridge fuses are available upon request.

Technical Data

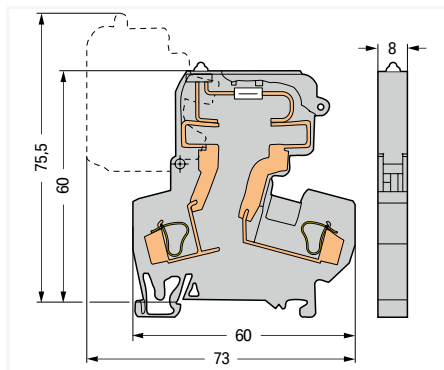
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ① ②	220 V, 10 A ① ②
I _N 10 A	230 V, 10 A ②

Terminal block width: 8 mm / 0.315 inch

9 ... 10 mm / 0.35 ... 0.39 inch



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Color	Item No.	Pack. Unit
gray	281-611/281-417	50
gray	281-611/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

gray	281-612/281-417	50
gray	281-612/281-418	50

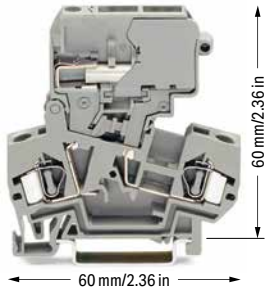
Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

gray	281-622/281-417	50
gray	281-622/281-418	50

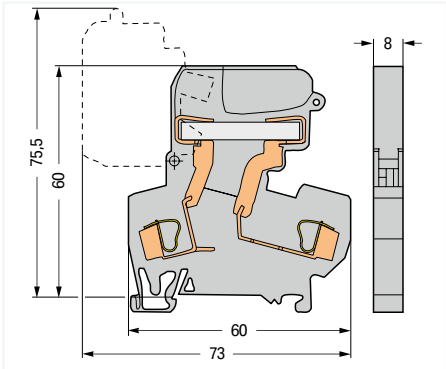
Glass cartridge fuses are available upon request.

Technical Data

0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ①	600 V, 16 A ②
I _N 16 A	
Terminal block width: 8 mm / 0.315 inch	
9 ... 10 mm / 0.35 ... 0.39 inch	



Dimensions (in mm):



2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	281-624	100
orange	281-672	100

- ① 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- ② Electrical ratings are given by the fuse (see page 344).

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

gray	281-309	100 (25)
orange	281-311	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
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Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks

gray	280-404	100 (25)
------	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²

I _N 24 A	281-407	100 (25)
---------------------	---------	----------

Interlocking link; mechanically locks multiple links; 1 m long

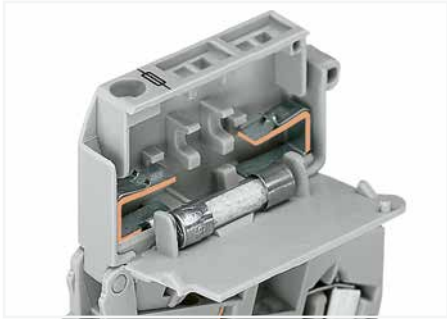
transparent	210-254	1
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Fused disconnect or disconnect terminal blocks with a width of 8 mm can be assembled adjacently. At the end of an assembly or if there is no adjacent fused disconnect or disconnect terminal block, an end or intermediate plate must be used.



All fuse holders are printed with correct fuse size.



5 x 20 mm, 5 x 25 mm and ¼" x 1" fuse holders are fitted with stops on the inside of the cover.

Fused Disconnect Terminal Block with a Pivoting Fuse Holder; for ¼" x 1" and ¼" x 1¼" Glass Cartridge Fuses

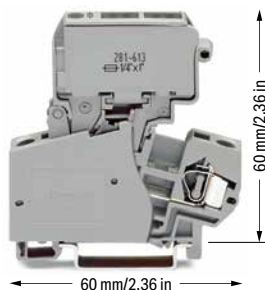
4 mm²; 281 Series

Technical Data

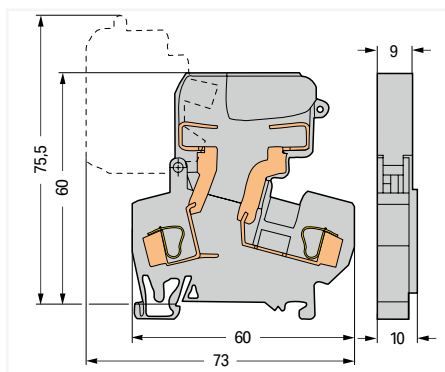
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ① ②	600 V, 10 A ① ②
I _N 10 A	600 V, 10 A ②

Terminal block width: 10 mm / 0.394 inch

9 ... 10 mm / 0.35 ... 0.39 inch



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; without blown fuse indication

Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
○ gray	281-613	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; without blown fuse indication

Electrical ratings are given by the fuse.

○ gray	281-623	50
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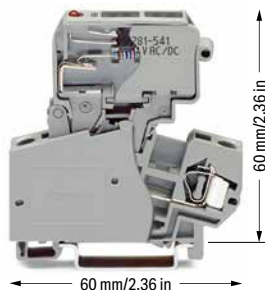
Glass cartridge fuses are available upon request.

Technical Data

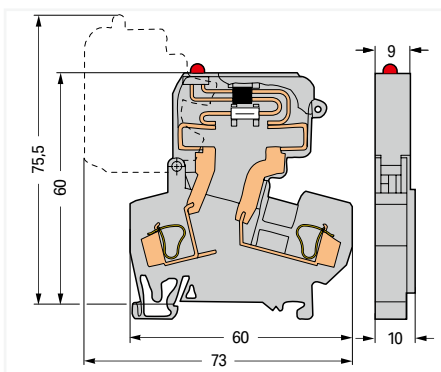
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ① ②	30 V, 10 A ① ②
I _N 10 A	30 V, 10 A ②

Terminal block width: 10 mm / 0.394 inch

9 ... 10 mm / 0.35 ... 0.39 inch



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; with blown fuse indication by LED; gray

Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

Color	Item No.	Pack. Unit
○ 15 ... 30 V	281-613/281-541	50
○ 30 ... 65 V	281-613/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; with blown fuse indication by LED; gray

Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

○ 15 ... 30 V	281-623/281-541	50
○ 30 ... 65 V	281-623/281-542	50

Glass cartridge fuses are available upon request.

Technical Data

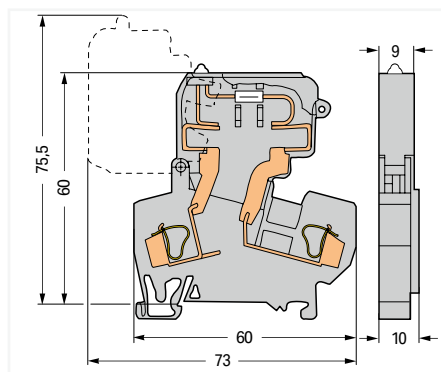
0.08 ... 4 mm ²	28 ... 12 AWG
800 V / 8 kV / 3 ① ②	220 V, 10 A ① ②
I _N 10 A	100 V, 10 A ②

Terminal block width: 10 mm / 0.394 inch

9 ... 10 mm / 0.35 ... 0.39 inch



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; with blown fuse indication by neon lamp; gray

Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Color	Item No.	Pack. Unit
○ 230 V	281-613/281-417	50
○ 120 V	281-613/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; with blown fuse indication by neon lamp; gray

Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

○ 230 V	281-623/281-417	50
○ 120 V	281-623/281-418	50

Glass cartridge fuses are available upon request.

- 1 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- 2 Electrical ratings are given by the fuse (see page 344).
- Please observe the application notes:
Marking, from page 684
- Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick



gray	281-309	100 (25)
orange	281-311	100 (25)

Adjacent jumper; insulated; $I_N = I_N$ terminal block



gray	281-402	200 (25)
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Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A



L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug adapter; 5 mm wide; for 4 mm Ø test plug; for 1.5 ... 4 mm² terminal blocks



gray	280-404	100 (25)
------	---------	----------

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 ... 2.5 mm²



I_N 24 A	281-407	100 (25)
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Interlocking link; mechanically locks multiple links; 1 m long



transparent	210-254	1
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An intermediate plate is supplied with all 10 mm wide fused disconnect terminal blocks. At the end of an assembly or if there is no adjacent fused disconnect terminal block, an end or intermediate plate must be used.



Each fuse holder features two marker slots for custom WMB Multi markers (example shows 8 mm wide terminal blocks).



Ganging several fuse holders with an interlocking link (example shows 8 mm wide terminal blocks).

Fuse Plug on Carrier Terminal Block 4 mm² 281 Series

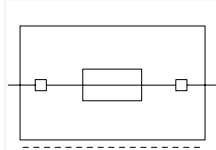
Technical Data

250 V / I_N 6,3 A ④

Plug width: 6 mm / 0.236 inch



281-511



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; 6 mm wide
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
○ gray	281-511	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with hole for one LED (for self-assembly); 6 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication.

○ gray	281-512	50
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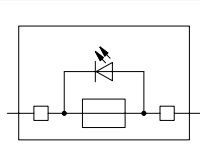
Technical Data

250 V / I_N 6,3 A ④

Plug width: 6 mm / 0.236 inch



281-512/281-501



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with LED; 24 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 ... 20 mA

Color	Item No.	Pack. Unit
○ gray	281-512/281-501	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 120 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

○ gray	281-512/281-418	50
--------	-----------------	----

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 230 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

○ gray	281-512/281-417	50
--------	-----------------	----

Accessories; for fuse plugs

Appropriate marking systems: 4 mm wide WSB for plug and WMB terminal block

2-conductor carrier terminal block;
0.08 ... 4 mm² / 28 ... 12 AWG
Terminal block width: 6 mm / 0.236 inch



gray	281-916	50
------	---------	----

4-conductor carrier terminal block;
0.08 ... 4 mm² / 28 ... 12 AWG
Terminal block width: 6 mm / 0.236 inch



gray	281-656	50
------	---------	----

End and intermediate plate; 2.5 mm thick



orange	281-329	100 (25)
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gray	281-328	100 (25)
------	---------	----------

3-conductor carrier terminal block;
0.08 ... 4 mm² / 28 ... 12 AWG
Terminal block width: 6 mm / 0.236 inch



gray	281-610	50
------	---------	----

End and intermediate plate; 2.5 mm thick



orange	281-326	100 (25)
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gray	281-324	100 (25)
------	---------	----------

Wire commoning chain; insulated; 50 connections; I_N 8 A



black	210-103	5
-------	---------	---

Wire commoning chain; insulated; 50 connections; I_N 8 A



blue	210-123	5
------	---------	---

④ Electrical ratings are given by the fuse or LED nominal voltage (see page 387).

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems:
WMB/WMB Inline

Comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-482	100 (25)
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3-way	281-483	100 (25)
-------	---------	----------

5-way	281-485	100 (25)
-------	---------	----------

10-way	281-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block



2-way	281-492	100 (25)
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Operating tool; insulated



2-way	280-432	1
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3-way	280-433	1
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5-way	281-440	1
-------	---------	---

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug



I _N 6.3 A	281-503	250 (25)
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WSB marking card; white, 10 strips with 10 markers/card; 4 mm wide WSB markers



plain	209-701	5
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WSB marking card; plain; 10 strips with 10 markers/card; 4 mm wide WSB markers



yellow	209-701/000-002	5
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red	209-701/000-005	5
-----	-----------------	---

blue	209-701/000-006	5
------	-----------------	---

gray	209-701/000-007	5
------	-----------------	---

orange	209-701/000-012	5
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light green	209-701/000-017	5
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green	209-701/000-023	5
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violet	209-701/000-024	5
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WSB marking card; for fuse plugs (281-5...); white; 4 mm wide WSB markers



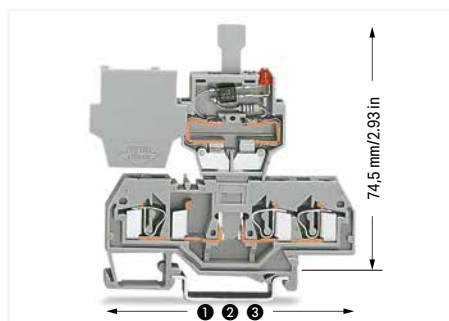
F1, ..., F10 (10x)	209-787	5
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F11, ..., F20 (10x)	209-700/209-124	5
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F21, ..., F30 (10x)	209-700/209-125	5
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F31, ..., F40 (10x)	209-700/209-126	5
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F41, ..., F50 (10x)	209-700/209-127	5
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Length of carrier terminal blocks with a fuse plug:

- ① 59 mm / 2.32 inch for 281-916
- ② 73.5 mm / 2.89 inch for 281-610
- ③ 86 mm / 3.39 inch for 281-656

Terminal blocks with side marking, visit www.wago.com

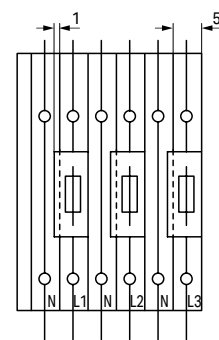


Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:

- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 6 mm
- May be used as a disconnect plug in combination with a shorting link



Open side of terminal block left

When a corresponding neutral circuit is adjacent to the fuse plug, a 5 mm wide space-saving terminal block may be used, as a 6 mm fuse plug may overlap the terminal block (see diagram).

For example, 5 mm (0.197 inch) wide carrier terminal blocks can be used with an end plate.

Fuse Plug on Carrier Terminal Block 2.5 mm² 280 Series

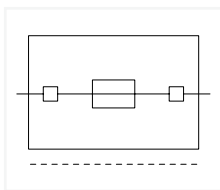
Technical Data

125 V / I_N 5 A

Plug width: 5 mm / 0.197 inch



280-850



Fuse plug; with soldered miniature fuse; 5 mm wide; gray
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
○ 250 mA FF	280-850	100
○ 500 mA FF	280-852	100
○ 1 A FF	280-854	100
○ 2 A FF	280-856	100

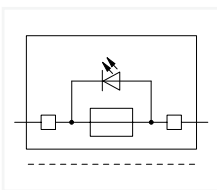
Technical Data

125 V / I_N 5 A

Plug width: 5 mm / 0.197 inch



280-850/281-413



Fuse plug; with soldered miniature fuse; with additional indicator lamp; red LED; 15 ... 30 VDC; 5 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 ... 20 mA

	Item No.	Pack. Unit
○ 250 mA FF	280-850/281-413	100
○ 500 mA FF	280-852/281-413	100
○ 1 A FF	280-854/281-413	100
○ 2 A FF	280-856/281-413	100

Accessories; for fuse plugs

Appropriate marking system: WMB

2-conductor carrier terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch



gray 280-916 100

End and intermediate plate; 2.5 mm thick



orange 280-309 100 (25)

gray 280-308 100 (25)

3-conductor carrier terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch



gray 280-610 100

End and intermediate plate; 2.5 mm thick



orange 280-326 100 (25)

gray 280-324 100 (25)

4-conductor carrier terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch



gray 280-816 100

End and intermediate plate; 2.5 mm thick



orange 280-315 100 (25)

gray 280-314 100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way 280-482 200 (25)

3-way 280-483 200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way 280-490 50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way 280-492 200 (25)

Operating tool; insulated



2-way 280-432 1

3-way 280-433 1

Operating tool; insulated



10-way 280-440 1

Wire commoning chain; insulated; 50 connections; I_N 8 A

black 210-103 5

Wire commoning chain; insulated; 50 connections; I_N 8 A

blue 210-123 5

*12 AWG: THHN, THWN

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; for fuse plugs

Appropriate marking system:
WMB

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel;
5 ... 5.2 mm stretchable

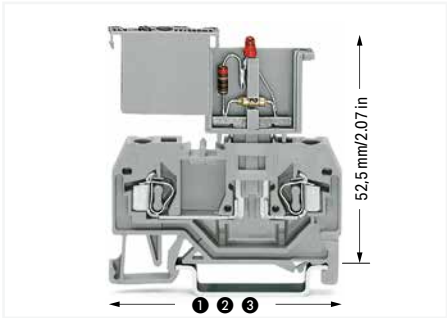


white 2009-115 1

WMB marking card; white; 10 strips with 10 markers/card;
5 ... 5.2 mm stretchable



plain 793-5501 5



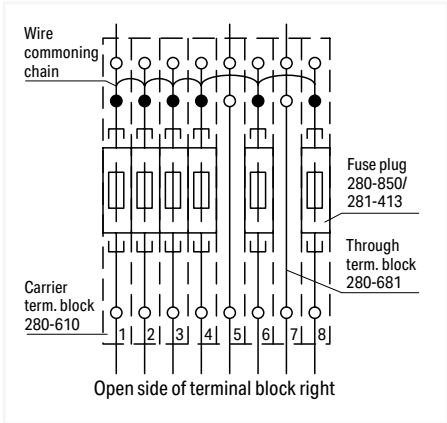
Length of carrier terminal blocks with a fuse plug:
① 53 mm / 2.09 inch for 280-916
② 64 mm / 2.52 inch for 280-610
③ 75 mm / 2.95 inch for 280-816

Terminal blocks with side marking, visit www.wago.com



Using fuse plugs with rail-mount terminal blocks (280/281 and 769 Series) for control circuit protection is highly advantageous because the function and wiring levels are separated:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- Quick plug replacement in case of a blown fuse
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Terminal blocks/plugs provide ultra high-density wiring in a width of just 5 mm
- Optional LED indicates blown fuse



Fuse protection of individual outputs – supply via wire commoning chain

Fuse Terminal Block for 10 x 38 mm (1 3/32" x 1 1/2") Cylindrical Fuses and Class CC Fuses 16 mm²; 811 Series

Technical Data

2.5 ... 16 mm ²	14 ... 6 AWG
1000 VDC, 32 A	1000 VDC, 30 A [Ⓢ]

Terminal block width: 17.5 mm / 0.689 inch

 12 ... 13 mm / 0.47 ... 0.51 inch


Technical Data

2.5 ... 16 mm ²	14 ... 6 AWG
690 VAC, 32 A	750 VAC, 30 A [Ⓢ]
1000 VDC, 32 A	600 VAC, 30 A [Ⓢ]
	1000 VDC, 30 A [Ⓢ] Ⓢ

Terminal block width: 17.5 mm / 0.689 inch

 12 ... 13 mm / 0.47 ... 0.51 inch

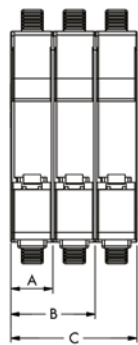
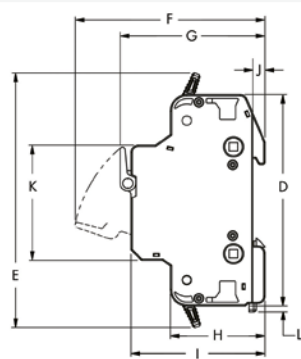

Technical Data

2.5 ... 16 mm ²	14 ... 6 AWG
32 A	600 V, 30 A [Ⓢ]
	600 V, 30 A [Ⓢ]

Terminal block width: 17.5 mm / 0.689 inch

 12 ... 13 mm / 0.47 ... 0.51 inch


Dimensions (in mm):



Dimension	mm (inch)
A	17.3 (0.68)
B	34.6 (1.36)
C	51.9 (2.04)
D	87 (3.43)
E	104.9 (4.13)
F	78.3 (3.08)
G	59.7 (2.35)
H	39 (1.54)
I	55.2 (2.17)
J	5 (0.2)
K	47.4 (1.87)
L	2.5 (0.1)

Fuse terminal block for 10 x 38 mm (1 3/32" x 1 1/2") cylindrical fuses; for photovoltaic applications; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
○ 1-pole	811-316	12

Fuse terminal block for 10 x 38 mm (1 3/32" x 1 1/2") cylindrical fuses; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
○ 1-pole	811-310	12
○ 2-pole	811-320	6
○ 3-pole	811-330	4

Fuse terminal block for class CC fuses; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
○ 1-pole	811-410	12
○ 2-pole	811-420	6
○ 3-pole	811-430	4

Fuse terminal block for 10 x 38 mm (1 3/32" x 1 1/2") cylindrical fuses; for photovoltaic applications; with blown fuse indication; 230 ... 1000 VDC; for DIN-35 rail; light gray

○ 1-pole	811-317	12
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Fuse terminal block for 10 x 38 mm (1 3/32" x 1 1/2") cylindrical fuses; with blown fuse indication; 90 ... 600 VAC; 115 ... 600 VDC; for DIN-35 rail; light gray

○ 1-pole	811-311	12
○ 2-pole	811-321	6
○ 3-pole	811-331	4

Fuse terminal block for class CC fuses; with blown fuse indication; 90 ... 600 VAC; 115 ... 600 VDC; for DIN-35 rail; light gray

○ 1-pole	811-411	12
○ 2-pole	811-421	6
○ 3-pole	811-431	4

Fuse terminal block for 10 x 38 mm (1 3/32" x 1 1/2") cylindrical fuses; with blown fuse indication; 24 VDC; for DIN-35 rail; light gray

○ 1-pole	811-314	12
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Fuse terminal block for class CC fuses; with blown fuse indication; 24 VDC; for DIN-35 rail; light gray

○ 1-pole	811-414	12
----------	---------	----

Accessories; 811 Series

Appropriate marking systems: WMB/Marking strips

Supply module; 35 mm²; 600 VAC; 1000 VDC

	811-471	16 (4)
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Coupling kit; for 12 poles

	811-612	1
---	---------	---

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable

	white	2009-115	1
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Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

	red	210-136	50
---	-----	---------	----

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

	gray	285-442	25
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WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

	plain	793-5501	5
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Cylindrical fuses are not offered by WAGO. Temperature range: -35 ... +85 °C
Electrical ratings are given by the fuse and blown fuse indication.

Please observe the application notes:
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 811 Series

Appropriate marking systems:
WMB/Marking strips

Push-in type jumper bar; insulated; I_N 63 A

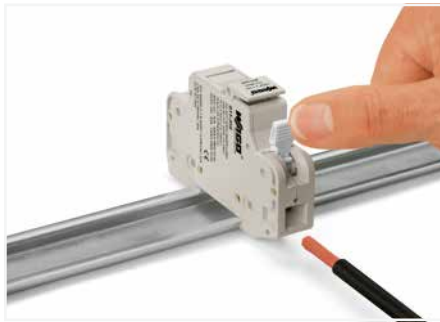


2-way	811-472	50 (10)
3-way	811-473	40 (10)
4-way	811-474	40 (10)
5-way	811-475	40 (10)
6-way	811-476	30 (10)
7-way	811-477	20 (10)
8-way	811-478	20 (10)
9-way	811-479	20 (10)
10-way	811-480	20 (10)
11-way	811-481	20 (10)
12-way	811-482	20 (10)

Twin ferrule only for 811 Series; insulated; 12 mm long



Sleeve for 2 x 2.5 mm ² / 14 AWG	216-545	100
Sleeve for 2 x 4 mm ² / 12 AWG	216-546	100
Sleeve for 2 x 6 mm ² / 10 AWG	216-547	100



CAGE CLAMP® connection
Inserting a conductor.
Opening the clamping unit via integrated lever.



Terminating ferruled conductors up to 10 mm² (8 AWG).



Inserting a fuse.



Removing a terminal block from the DIN-rail.

6



Open and close lever via operating tool.



Marker carriers (285-442) for continuous marking strips



WMB marking location for convenient identification



Jumper bar for quick and convenient commoning



Creating a 2- or 3-pole fuse terminal block via coupling kit.

Fused Disconnect Terminal Block; for 10/14 x 85 mm Cylindrical Fuses 16 mm²; 811 Series

Technical Data

2.5 ... 16 mm² | 14 ... 6 AWG

1500 VDC, 32 A

Terminal block width: 22.3 mm / 0.878 inch

12 ... 13 mm / 0.47 ... 0.51 inch

Cylindrical fuses are not offered by WAGO. Temperature range: -35 ... +85 °C
Electrical ratings are given by the fuse and blown fuse indication.

Approvals and corresponding ratings, visit www.wago.com



2-conductor fused disconnect terminal block; with a pivoting fuse holder; with test point; for 10/14 x 85 mm cylindrical fuses; for photovoltaic applications; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
○ 1-pole	811-1316	12



Opening and closing lever via operating tool.



Removing a terminal block from the DIN-rail.



Inserting a fuse.



CAGE CLAMP® connection
Inserting a conductor.
Opening the clamping unit via integrated lever.



Terminating ferruled conductors up to 10 mm² (8 AWG).

Application Notes on Terminal Blocks for Glass Cartridge Fuses

Terminal Blocks for Glass Cartridge Fuses Tested per IEC or EN 60947-7-3/VDE 0611-6

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded.

The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C.

The temperature rise of the terminal blocks must be checked according to their application and mounting.

Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary.

More details are available from the manufacturers.

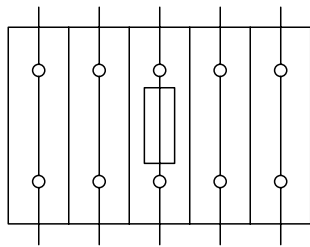
Glass Cartridge Fuses (5 x 20 mm)

Series Item No.	Overload and Short-Circuit Protection		Short-Circuit Protection Only	
	Individual Arrangement	Block Arrangement	Individual Arrangement	Block Arrangement
Fuse terminal blocks (with screw cap), front-entry (5 x 20 mm)				
282-122 282-124	2.5 W	2.5 W	4 W	4 W
Fused disconnect terminal block with a pivoting fuse holder for glass cartridge fuses (5 x 20 mm)				
281-611 281-616 281-611/281-541 281-611/281-542 281-611/281-417 281-611/281-418	2.5 W	1.6 W	4 W	4 W
Fuse plugs for glass cartridge fuses (5 x 20 mm)				
281-511 281-512 281-512/281-501 281-512/281-418 281-512/281-417	2.5 W	1.6 W	4 W	4 W

Glass Cartridge Fuses (6.3 x 32 mm)

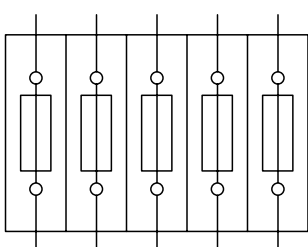
Series Item No.	Overload and Short-Circuit Protection		Short-Circuit Protection Only	
	Individual Arrangement	Block Arrangement	Individual Arrangement	Block Arrangement
Fuse terminal blocks (with screw cap), front-entry (1/4" x 11/4" ≈ 6.3 x 32 mm)				
282-128	2.5 W	2.5 W	4 W	4 W
282-128/281-418				
282-128/281-413				
282-128/281-417				
Fused disconnect terminal block with a pivoting fuse holder for glass cartridge fuses (1/4" x 11/4" ≈ 6.3 x 32 mm)				
281-623	2.5 W	1.6 W	4 W	2.5 W
281-623/281-541				
281-623/281-542				
281-623/281-417				
281-623/281-418				

Individually arranged fuse terminal blocks



Terminal block assembly including one fuse terminal block and through terminal blocks

Fuse terminal block in a group

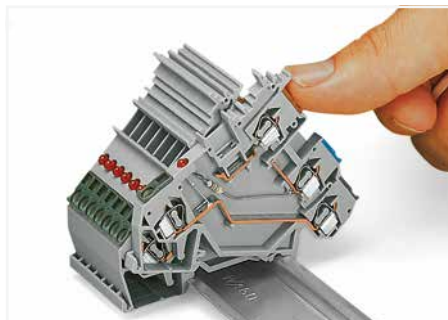


Terminal block assembly including five fuse terminal blocks

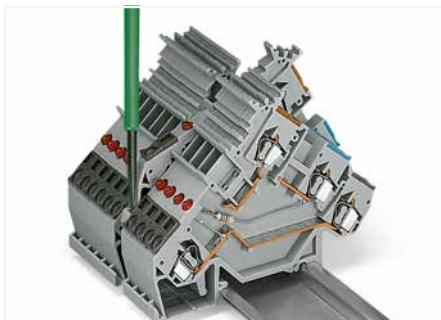
Sensor Terminal Blocks and Actuator Terminal Blocks

280 Series

Description and Installation



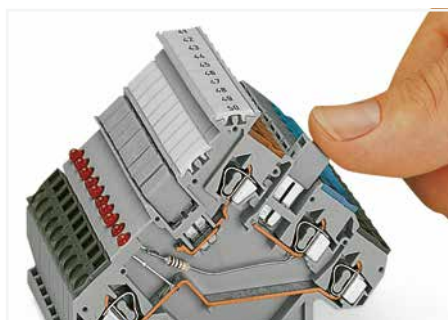
Snapping a terminal block onto the DIN-rail. Terminal blocks with a grounding foot automatically establish a direct contact to the rail.



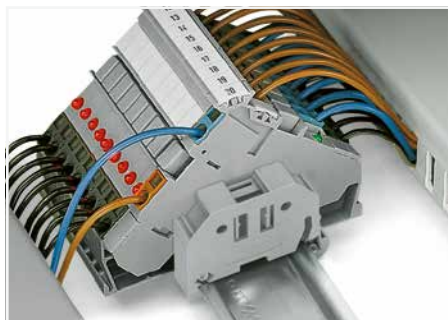
Removing a terminal block from the DIN-rail. Notice: Remove jumper contacts first.



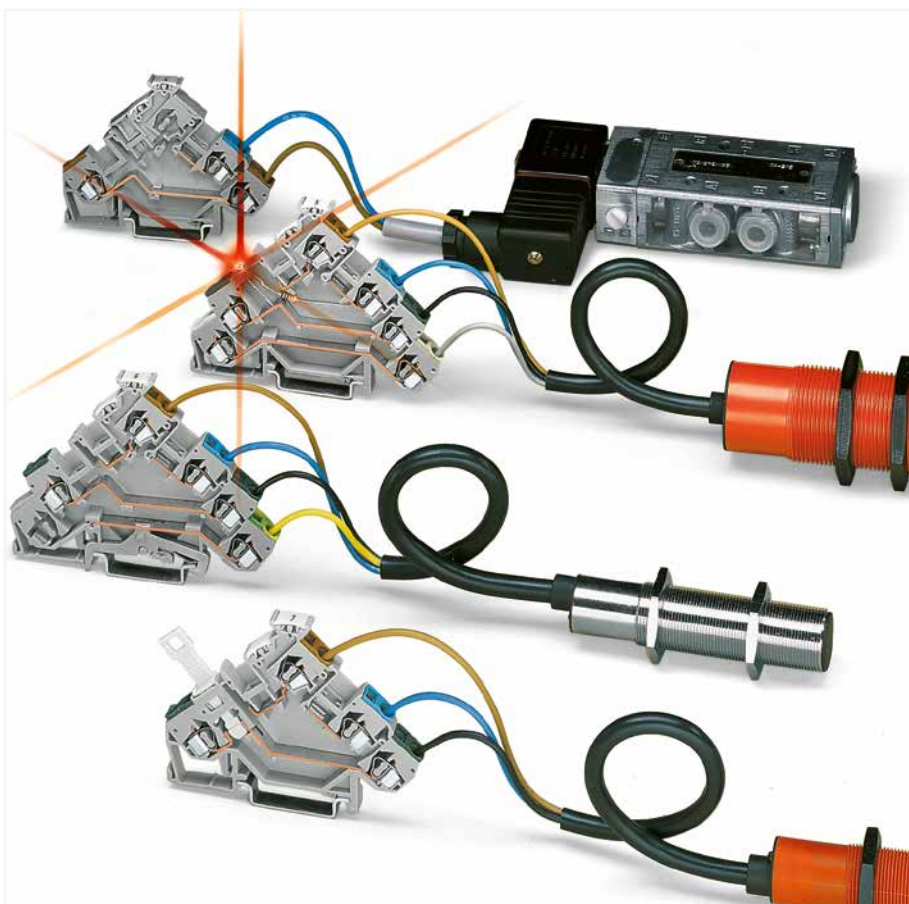
CAGE CLAMP® connection
Inserting a conductor via straight operating tool (210-720).



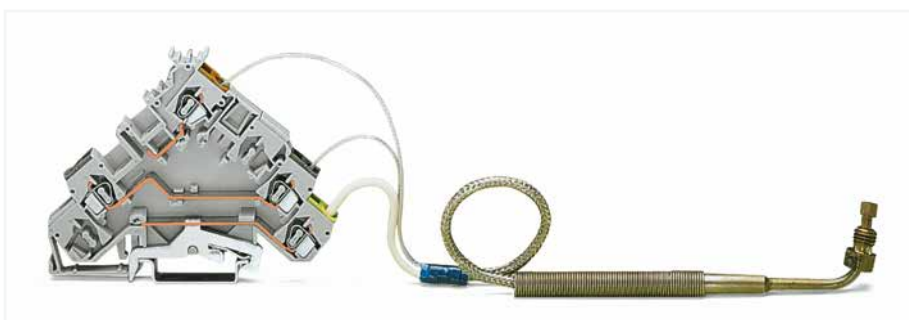
Commoning using an adjacent jumper (280-402). Push jumper down until fully inserted.



Sensor terminal blocks
Power supply from control panel side



Sensor terminal blocks
Power supply from sensor side



Actuator terminal block; with shield connection; with a thermocouple



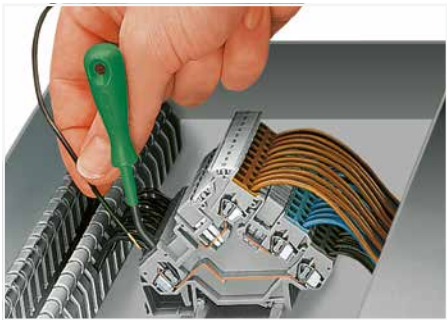
CAGE CLAMP® terminates the following copper conductors:
solid "s"



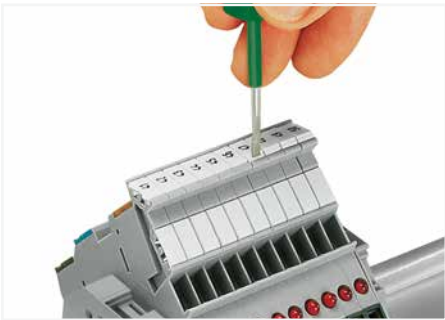
stranded "st"



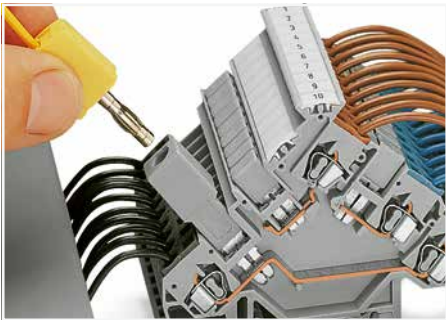
fine-stranded "f-st",
also with tinned
single strands



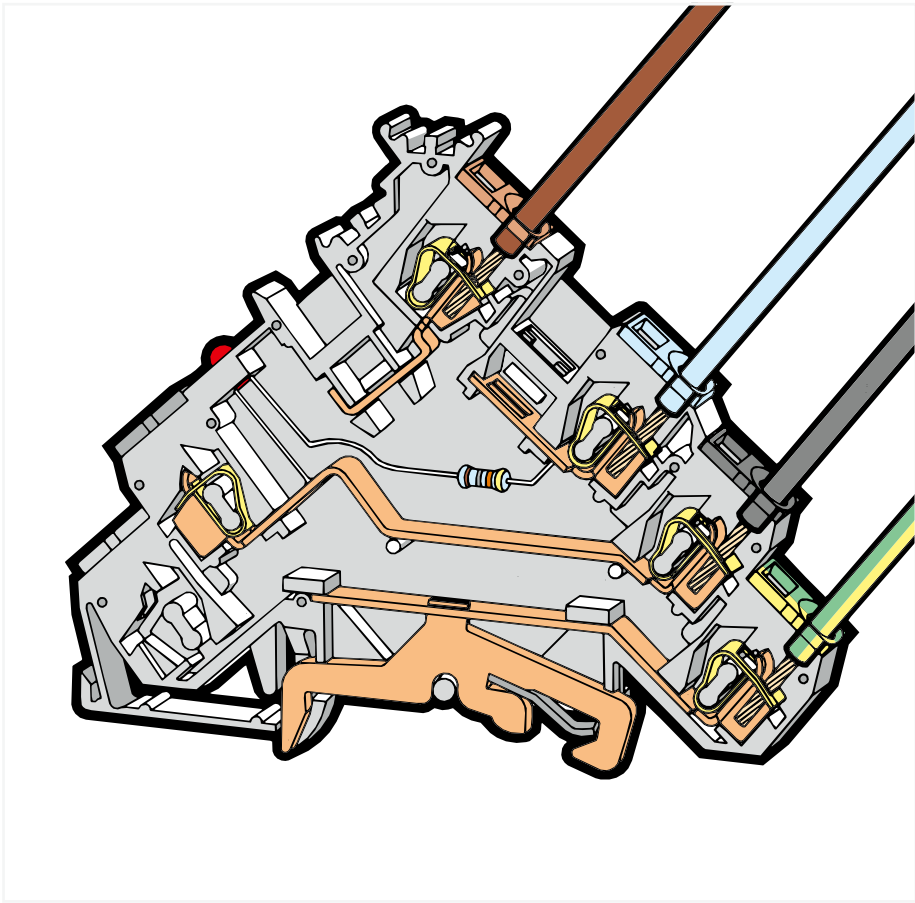
CAGE CLAMP® connection
Inserting a conductor via angled operating tool (210-658).



Labeling via WMB Multi Marking System.



Testing via banana plug and test plug adapter (209-170).



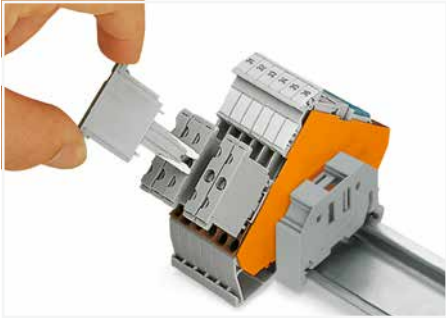
Testing via voltage tester directly on the current bar.



Actuator terminal blocks with fuse holders (281-511) – intermediate plates are required!



Actuator terminal block with thermocouple



Actuator terminal blocks with component plugs (280 801)



fine-stranded,
tip-bonded



fine-stranded,
with ferrule
(gastight crimped)



fine-stranded,
with pin terminal
(gastight crimped)

Sensor terminal block; for 3-conductor sensors

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 15 A ③

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
250 V / 4 kV / 3 ①	300 V, 6 A ②
I _N 6 A	300 V, 15 A ③

Terminal block width: 5 mm / 0.197 inch

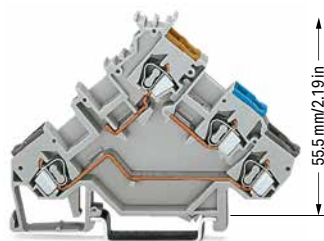
8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

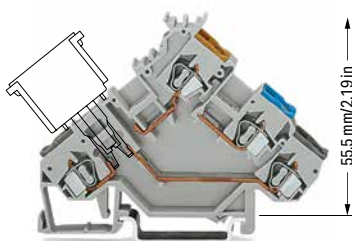
0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 10 A ②
I _N 10 A	300 V, 15 A ③

Terminal block width: 5 mm / 0.197 inch

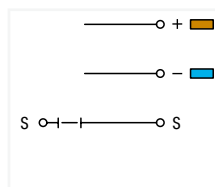
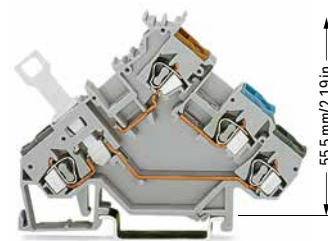
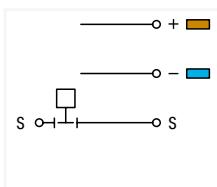
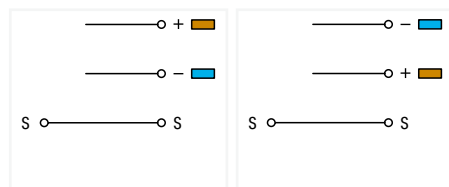
8 ... 9 mm / 0.31 ... 0.35 inch



280-560



280-553



Sensor terminal block

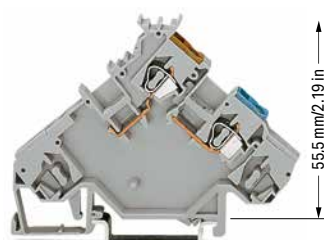
Color	Item No.	Pack. Unit
gray	280-560	50
gray	280-553	50

Sensor terminal block; for component plugs

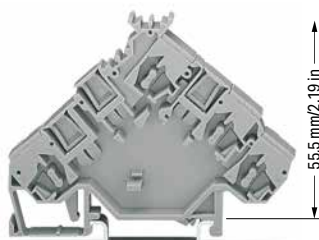
Color	Item No.	Pack. Unit
gray	280-561 ③	50

Sensor disconnect terminal block; for signal interruption

Color	Item No.	Pack. Unit
gray	280-563	50



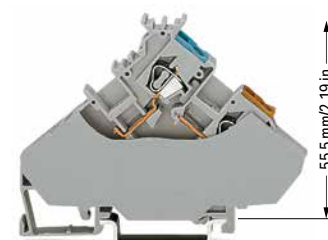
80 mm/3.15 in



80 mm/3.15 in

Spacer; same profile as 3-conductor sensor terminal blocks or corresponding actuator terminal blocks. Spacers with the same profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.

Color	Item No.	Pack. Unit
gray	280-559	50



80 mm/3.15 in



Sensor supply terminal block; power supply from sensor side

Color	Item No.	Pack. Unit
gray	280-564	10

Sensor supply terminal block; power supply from control panel side; with end plate

Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-567	20

Technical Data

400 V / 6 kV / 3	I _N 20 A
------------------	---------------------

*12 AWG: THHN, THWN

- 1 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- 2 Electrical ratings are given by the fuse plug or empty component plug housing.
- 3 Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (280-850), see page 380
x = 20 mm/0.787 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

	orange	280-321	100 (25)
	gray	280-319	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

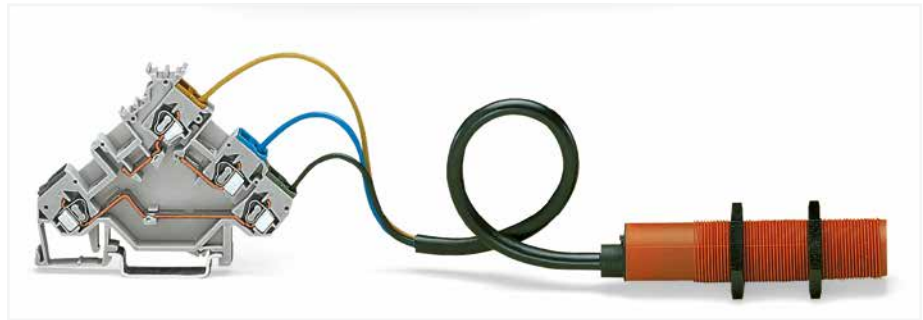
	light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

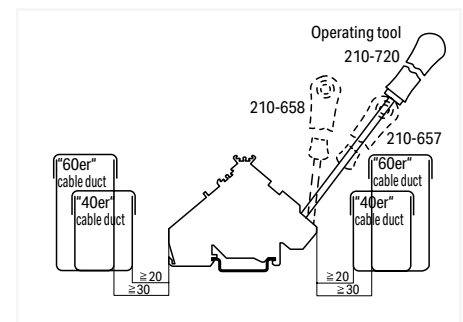
	dark gray	280-472	200 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

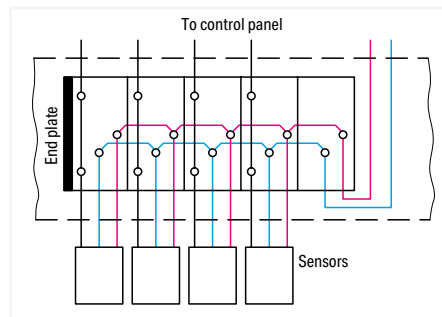
	gray	280-402	200 (25)
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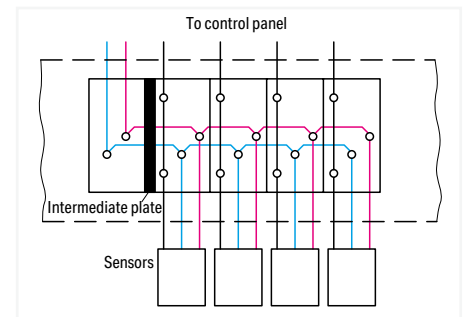
Sensor terminal block paired with a 3-conductor sensor



Min. mounting distance – terminal blocks to cable duct



Power supply from sensor side



Power supply from control panel side

Sensor LED Terminal Block; for 3-Conductor Sensors

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
24 VDC ①	24 V, 15 A
20 A	300 V, 15 A

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
24 VDC ①	24 V, 15 A
20 A	300 V, 15 A

Terminal block width: 5 mm / 0.197 inch

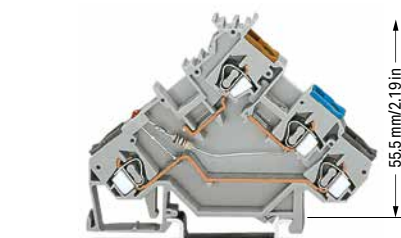
8 ... 9 mm / 0.31 ... 0.35 inch

*12 AWG: THHN, THWN

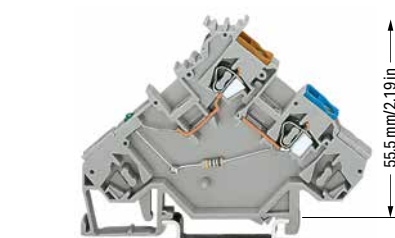
① Other voltages are available upon request.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

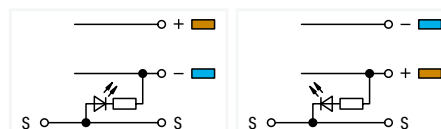
Approvals and corresponding ratings,
visit www.wago.com



280-560/281-434 280-561/281-413



280-564/281-483 280-566/281-496



Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-560/281-434	50

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA

gray	280-561/281-413	50
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Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-564/281-483	10

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA

gray	280-566/281-496	10
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Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

orange	280-321	100 (25)
gray	280-319	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

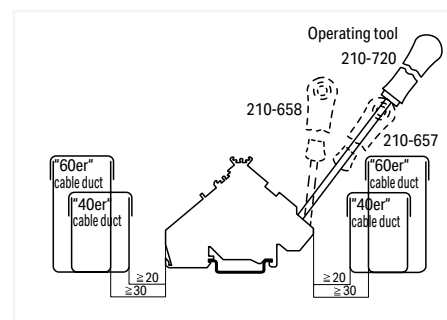
light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
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Min. mounting distance – terminal blocks to cable duct



Sensor LED terminal block with a 3-conductor sensor

Sensor LED Terminal Block; for 4-Conductor Sensors

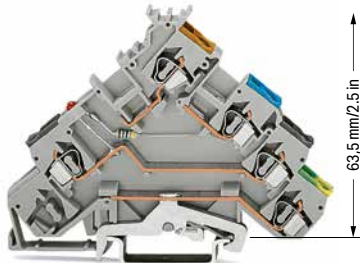
2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 24 VDC ⓘ 24 V, 15 A ⓘ
 20 A 300 V, 15 A ⓘ

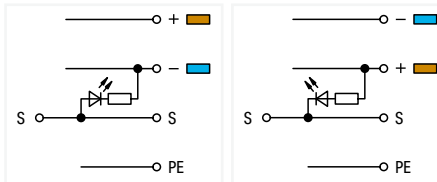
Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



280-570/281-434

280-571/281-413



Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-570/281-434	50

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA

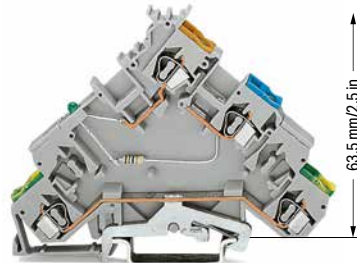
gray	280-571/281-413	50
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Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 24 VDC ⓘ 24 V, 15 A ⓘ
 20 A 300 V, 15 A ⓘ

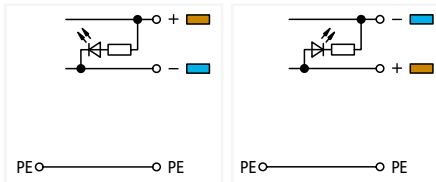
Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



280-574/281-483

280-576/281-496



Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-574/281-483	10

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA

gray	280-576/281-496	10
------	-----------------	----

Sensor LED supply terminal block; power supply from control panel side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA
 Terminal block width: 6 mm / 0.236 inch

gray	280-577/281-496	20
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Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
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*12 AWG: THHN, THWN

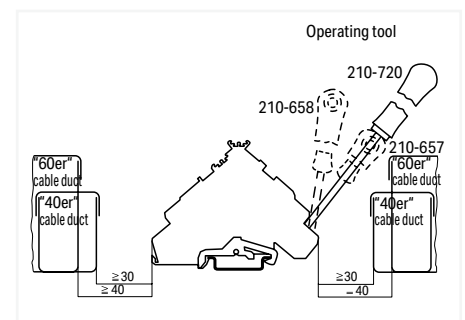
① Other voltages are available upon request.

Please observe the application notes:
 Insulation stop, page 425
 Marking, from page 684

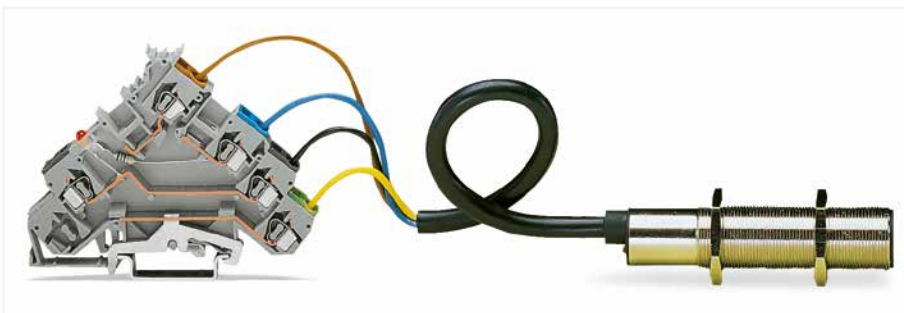
Approvals and corresponding ratings,
 visit www.wago.com



6



Min. mounting distance – terminal blocks to cable duct



Sensor LED terminal block paired with a 3-conductor sensor (ground connection)

Sensor terminal block; with ground connection; for 3-conductor sensors

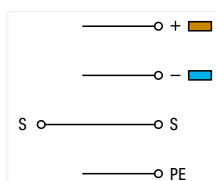
2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 400 V / 6 kV / 3 ① 300 V, 15 A ②
 I_N 20 A 300 V, 15 A ③
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch



90,5 mm/3.56 in

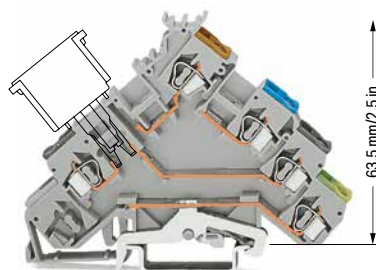


Sensor terminal block; with ground connection

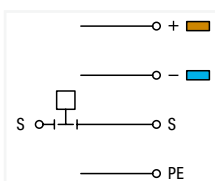
Color	Item No.	Pack. Unit
gray	280-570	50

Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 250 V / 4 kV / 3 ① 300 V, 6 A ②
 I_N 6 A 300 V, 15 A ③
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch



90,5 mm/3.56 in

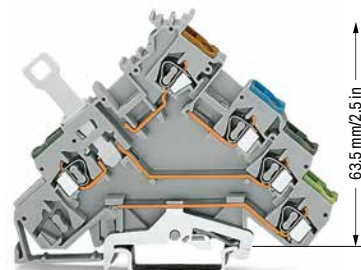


Sensor terminal block; with ground connection; for component plugs

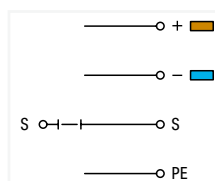
Color	Item No.	Pack. Unit
gray	280-571 ③	50

Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 400 V / 6 kV / 3 ① 300 V, 10 A ②
 I_N 10 A 300 V, 15 A ③
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch

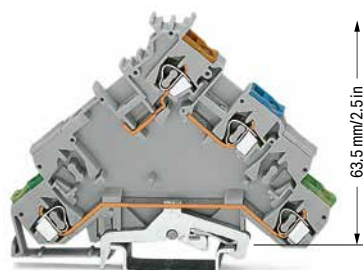


90,5 mm/3.56 in

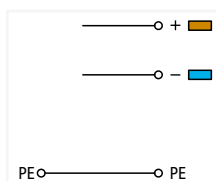


Sensor disconnect terminal block; with ground connection; for signal interruption

Color	Item No.	Pack. Unit
gray	280-573	50



90,5 mm/3.56 in



Sensor supply terminal block; with ground connection; power supply from sensor side

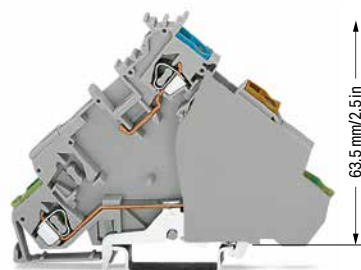
Color	Item No.	Pack. Unit
gray	280-574	10



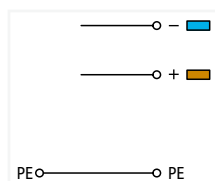
90,5 mm/3.56 in

Spacer; same profile as 4-conductor sensor terminal blocks; 3-conductor sensor terminal blocks with ground connection or corresponding actuator terminal blocks. Spacers with the same profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.

Color	Item No.	Pack. Unit
gray	280-582	50



90,5 mm/3.56 in



Sensor supply terminal block; with ground connection; power supply from control panel side; with end plate

Color	Item No.	Pack. Unit
gray	280-577	20

Technical Data

400 V / 6 kV / 3 I_N 20 A

*12 AWG: THHN, THWN

- 1 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- 2 Electrical ratings are given by the fuse plug or empty component plug housing.
- 3 Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (280-850), see page 380
x = 20 mm/0.787 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

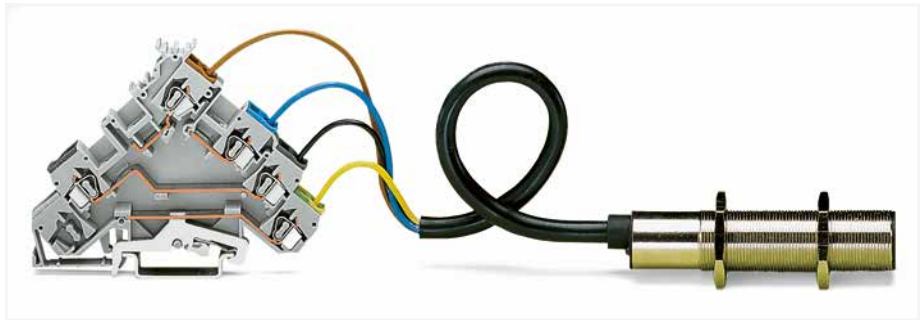


dark gray	280-472	200 (25)
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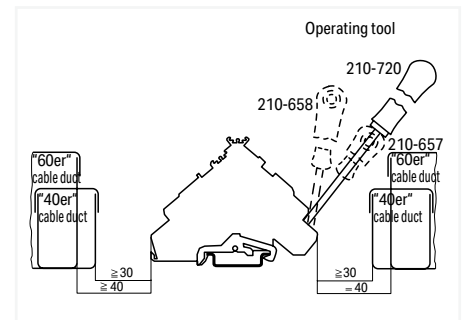
Adjacent jumper; insulated; I_N = I_N terminal block



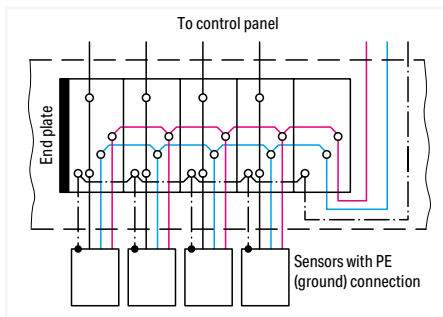
gray	280-402	200 (25)
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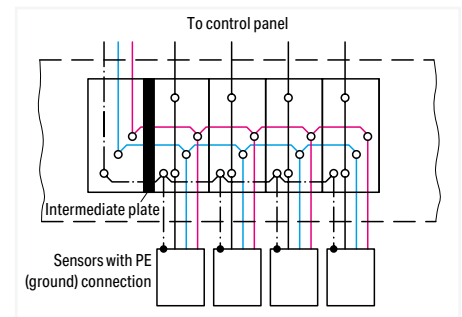
Sensor terminal block paired with a 3-conductor sensor



Min. mounting distance – terminal blocks to cable duct



Power supply from sensor side



Power supply from control panel side

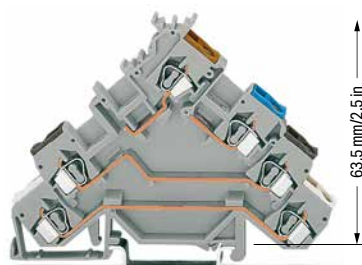
Sensor terminal block; for 4-conductor sensors 2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 15 A ③

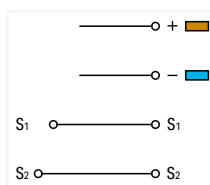
Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



90,5 mm/3.56 in

63,5 mm/2.5 in



Sensor terminal block

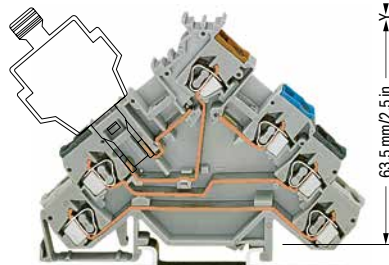
Color	Item No.	Pack. Unit
gray	280-580	50

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
125 V / 5 A ②	300 V, 6 A ②
250 V / 6.3 A ②	300 V, 15 A ③

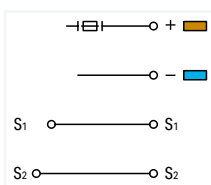
Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



90,5 mm/3.56 in

63,5 mm/2.5 in



Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; without end plate

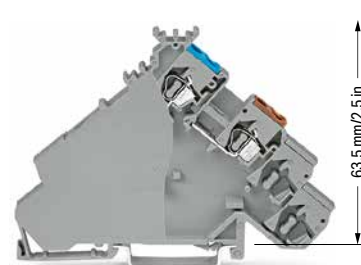
Color	Item No.	Pack. Unit
gray	280-588 ③	50

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	24 V, 15 A ②
I _N 10 A	300 V, 15 A ③

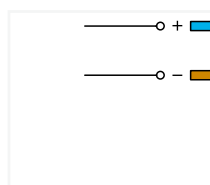
Terminal block width: 6 mm / 0.236 inch

8 ... 9 mm / 0.31 ... 0.35 inch



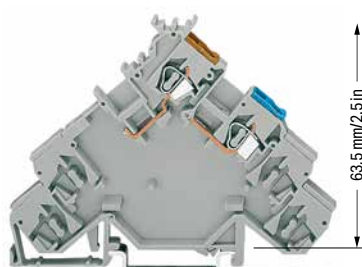
90,5 mm/3.56 in

63,5 mm/2.5 in



Sensor supply terminal block; power supply from control panel side; with end plate

Color	Item No.	Pack. Unit
gray	280-587	50



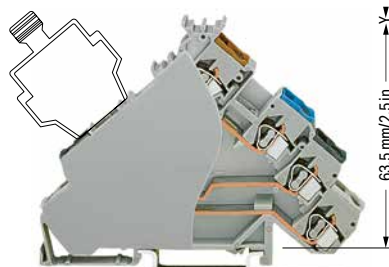
90,5 mm/3.56 in

63,5 mm/2.5 in



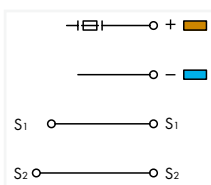
Sensor supply terminal block; power supply from sensor side; without end plate

Color	Item No.	Pack. Unit
gray	280-584	10



90,5 mm/3.56 in

63,5 mm/2.5 in



Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; with gray end plate

Color	Item No.	Pack. Unit
gray	280-588/280-320	50

Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; with orange end plate

Color	Item No.	Pack. Unit
gray	280-588/280-323	50

- *12 AWG: THHN, THWN
- 1

400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- 2

Electrical ratings are given by the fuse plug or empty component plug housing.
- 3

Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 378
y = 15.5 mm/0.61 inch
x = 10 mm/0.394 inch
- Please observe the application notes:
Insulation stop, page 425
Marking, from page 684
- Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

	orange	280-323	100 (25)
	gray	280-320	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

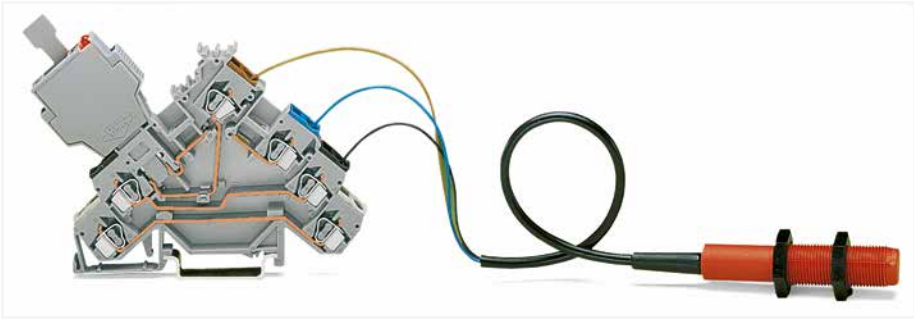
	dark gray	280-472	200 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

	gray	280-402	200 (25)
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Sensor terminal block paired with a 4-conductor sensor

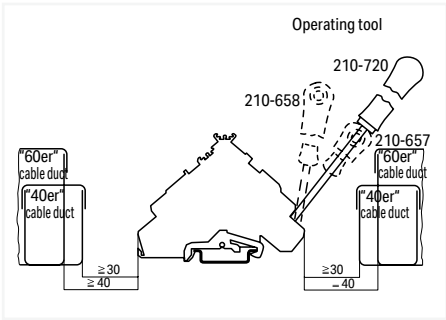


Sensor terminal block (with a fuse plug) paired with a 3-conductor sensor

6



The fuse plug is 1 mm wider than the terminal block, so an intermediate plate must be installed.



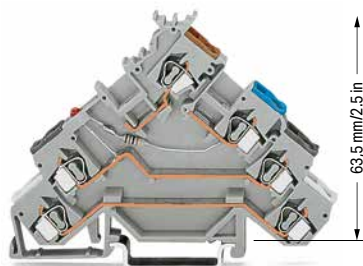
Min. mounting distance – terminal blocks to cable duct

Sensor LED Terminal Block; for 4-Conductor Sensors

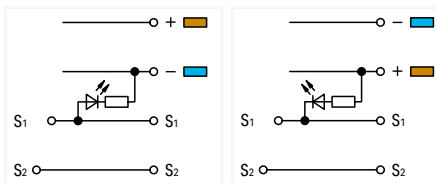
2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
24 VDC ①	24 V, 15 A
20 A	
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



280-580/281-434 280-581/281-413



Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA

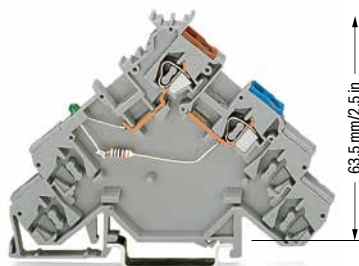
Color	Item No.	Pack. Unit
gray	280-580/281-434	50

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA

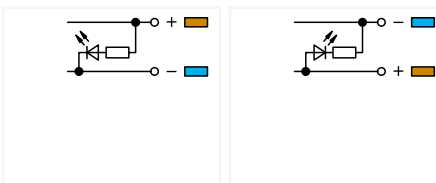
Color	Item No.	Pack. Unit
gray	280-581/281-413	50

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
24 VDC ①	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	



280-584/281-483 280-586/281-496



Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-584/281-483	10

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-586/281-496	10

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

Color	Item No.	Pack. Unit
orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

Color	Item No.	Pack. Unit
white	280-470	200 (25)

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

Color	Item No.	Pack. Unit
light gray	280-471	200 (25)

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

Color	Item No.	Pack. Unit
dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

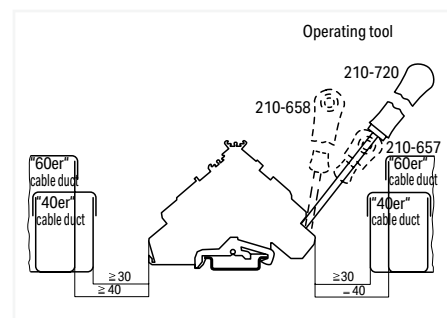
Color	Item No.	Pack. Unit
gray	280-402	200 (25)

*12 AWG: THHN, THWN

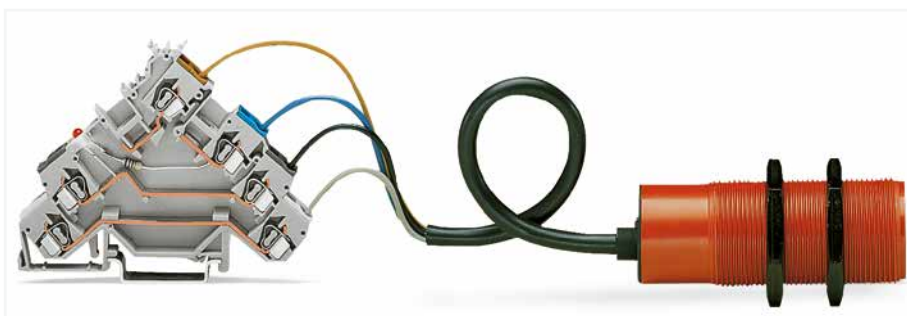
① Other voltages are available upon request.

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Min. mounting distance - terminal blocks to cable duct



Sensor LED terminal block paired with a 4-conductor sensor

Actuator terminal block; for pressure and thermo switches 2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 15 A ③
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data

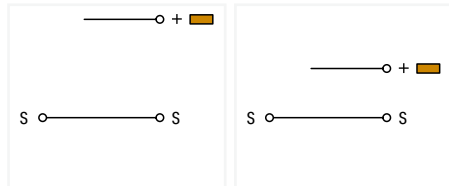
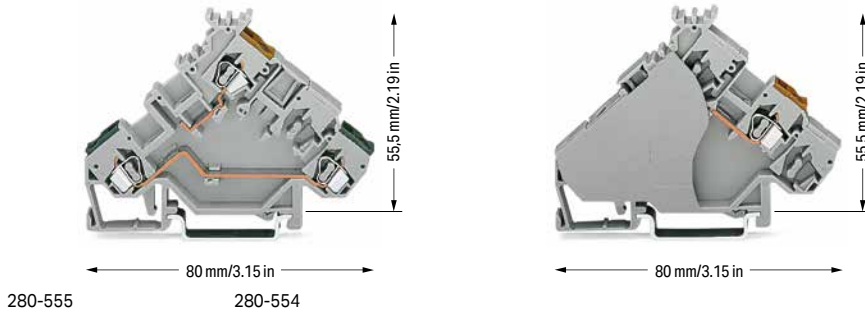
0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A ②
I _N 20 A	300 V, 15 A ③
Terminal block width: 6 mm / 0.236 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

*12 AWG: THHN, THWN

- ① 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Actuator terminal block

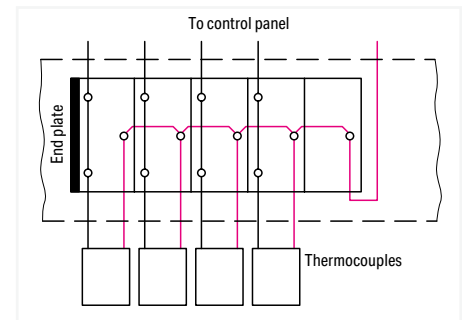
Color	Item No.	Pack. Unit
gray	280-555	50

Actuator terminal block

gray	280-554	50
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Actuator supply terminal block; in connection with 280-555: power supply from control panel side; in connection with 280-554: power supply from actuator side; with end plate

Color	Item No.	Pack. Unit
gray	280-556	20



Power supply from actuator side

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

orange	280-321	100 (25)
gray	280-319	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

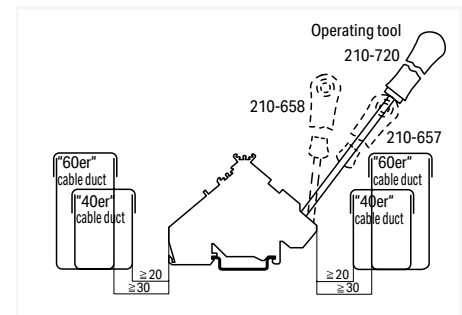
light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
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Min. mounting distance – terminal blocks to cable duct



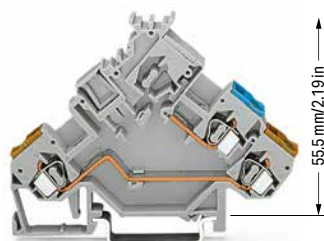
Actuator terminal block with thermocouple

Actuator terminal block; for Magnetic Valves and Servo Motors

2.5 mm²; 280 Series

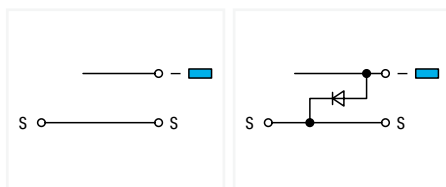
Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 400 V / 6 kV / 3; 20 A ① ② 300 V, 15 A ③
 250 V / 4 kV / 3; 20 A ① ② 300 V, 15 A ④
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch



280-562

280-562/281-411



Actuator terminal block

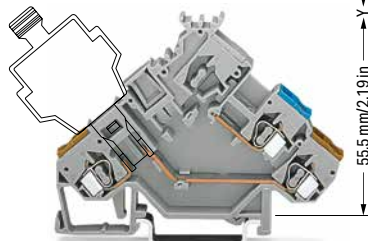
Color	Item No.	Pack. Unit
gray	280-562	50

Actuator terminal block; with 1N4007 recovery diode

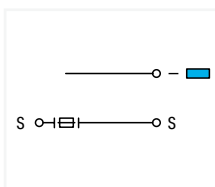
gray	280-562/281-411	50
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Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 125 V / 5 A ② 300 V, 6 A ③
 250 V / 6.3 A ② 300 V, 15 A ④
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch



X 80 mm/3.15 in

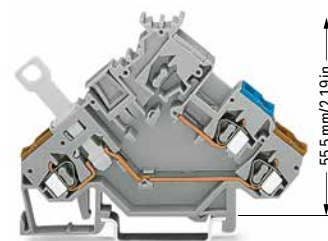
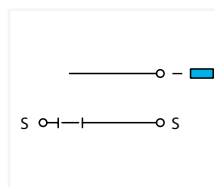


Actuator terminal block; for fuse plugs; for phase protection; without end plate

Color	Item No.	Pack. Unit
gray	280-565 ③	50

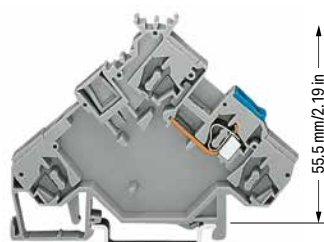
Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 400 V / 6 kV / 3 ① 300 V, 10 A ③
 I_N 10 A 300 V, 15 A ④
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch

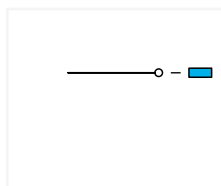
82 mm/3.23 in
85 mm/3.35 in

Actuator disconnect terminal block; for phase interruption

Color	Item No.	Pack. Unit
gray	280-566	50

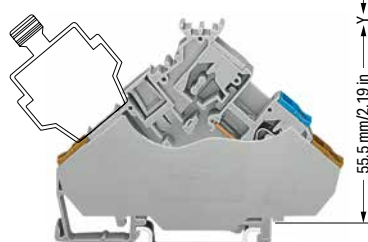


80 mm/3.15 in

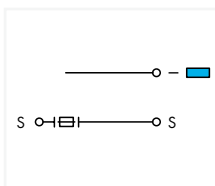


Actuator supply terminal block; power supply from actuator side

Color	Item No.	Pack. Unit
gray	280-592	10



X 80 mm/3.15 in

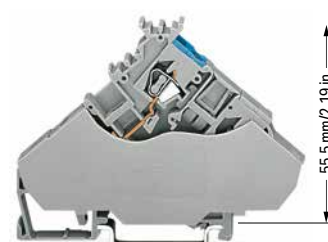


Actuator terminal block; for fuse plugs; for phase protection; with gray end plate

Color	Item No.	Pack. Unit
gray	280-565/281-319	50

Actuator terminal block; for fuse plugs; for phase protection; with orange end plate

gray	280-565/281-321	50
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80 mm/3.15 in



Actuator supply terminal block; power supply from control panel side; with end plate

Color	Item No.	Pack. Unit
gray	280-568	20

Technical Data

400 V / 6 kV / 3 I_N 20 A

*12 AWG: THHN, THWN

- 1 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- 2 Electrical ratings are given by the fuse plug or empty component plug housing.
- 3 Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 378
y = 15.5 mm/0.61 inch
x = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks



orange	280-321	100 (25)
gray	280-319	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)
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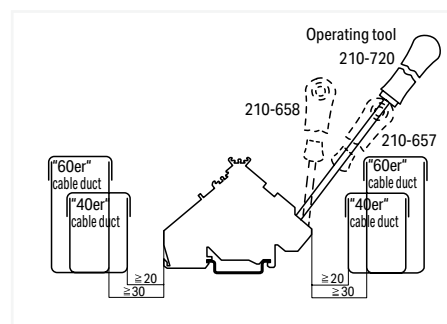
Adjacent jumper; insulated; I_N = I_N terminal block



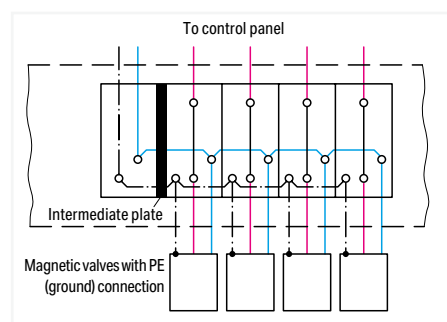
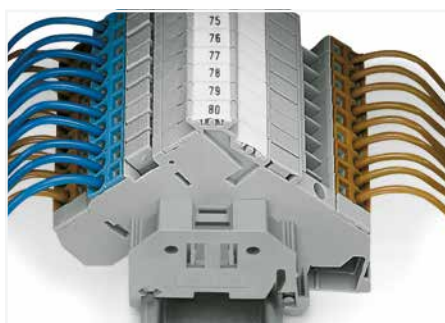
gray	280-402	200 (25)
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Sensor terminal block paired with a 3-conductor sensor



Min. mounting distance – terminal blocks to cable duct



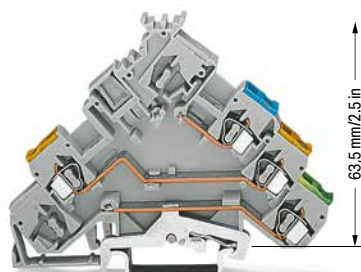
Power supply from control panel side

Actuator terminal block; with ground connection; for magnetic valves and servo motors

2.5 mm²; 280 Series

Technical Data

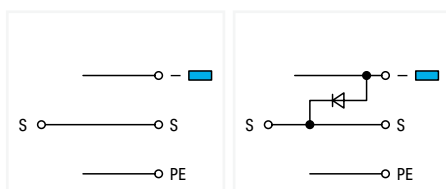
0.08 ... 2.5 mm² 28 ... 12 AWG*
 400 V / 6 kV / 3; 20 A ① ② 300 V, 15 A ③
 250 V / 4 kV / 3; 20 A ① ② 300 V, 15 A ④
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch



90,5 mm/3.56 in

280-572

280-572/281-411



Actuator terminal block; with ground connection

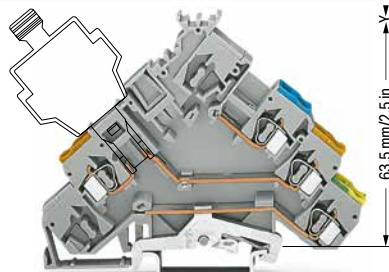
Color	Item No.	Pack. Unit
gray	280-572	50

Actuator terminal block; with ground connection; with 1N4007 recovery diode

gray	280-572/281-411	50
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Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 125 V / 5 A ② 300 V, 6 A ③
 250 V / 6.3 A ② 300 V, 15 A ④
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch

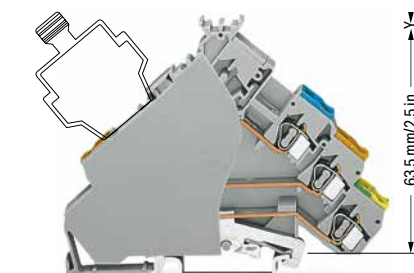


90,5 mm/3.56 in



Actuator terminal block; with ground connection; for fuse plugs; for phase protection; without end plate

Color	Item No.	Pack. Unit
gray	280-575 ③	50



90,5 mm/3.56 in



Actuator terminal block; with ground connection; for fuse plugs; for phase protection; with orange end plate
 Terminal block width: 6 mm / 0.236 inch

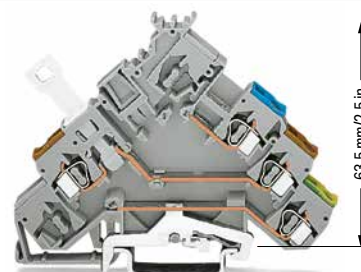
Color	Item No.	Pack. Unit
gray	280-575/281-320	50

Actuator terminal block; with ground connection; for fuse plugs; for phase protection; with orange end plate
 Terminal block width: 6 mm / 0.236 inch

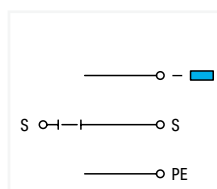
gray	280-575/281-323	50
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Technical Data

0.08 ... 2.5 mm² 28 ... 12 AWG*
 400 V / 6 kV / 3 ① 300 V, 10 A ③
 I_N 10 A 300 V, 15 A ④
 Terminal block width: 5 mm / 0.197 inch
 8 ... 9 mm / 0.31 ... 0.35 inch

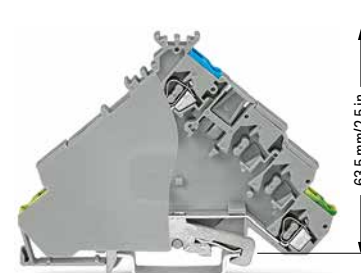


90,5 mm/3.56 in

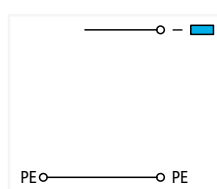


Actuator disconnect terminal block; with ground connection; for phase interruption

Color	Item No.	Pack. Unit
gray	280-576	50



90,5 mm/3.56 in



Actuator supply terminal block; with ground connection; power supply from control panel side; with end plate
 Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-578	20

Technical Data

400 V / 6 kV / 3 I_N 20 A

*12 AWG: THHN, THWN

- 1 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 15)
- 2 Electrical ratings are given by the fuse plug or empty component plug housing.
- 3 Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 378
x = 15.5 mm/0.61 inch
y = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks



orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

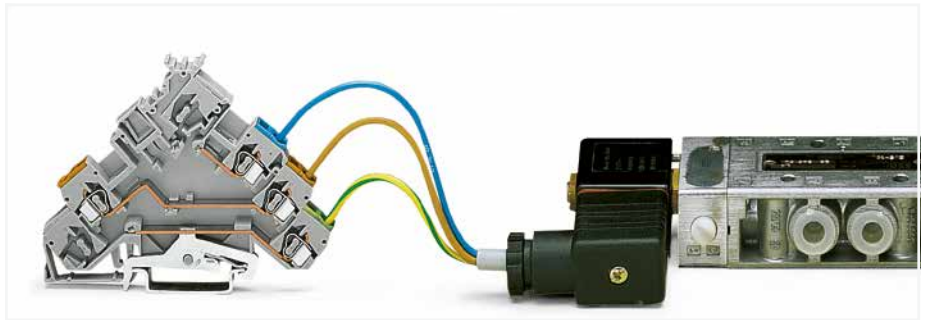


dark gray	280-472	200 (25)
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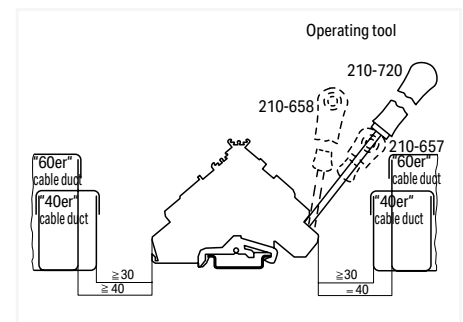
Adjacent jumper; insulated; I_N = I_N terminal block



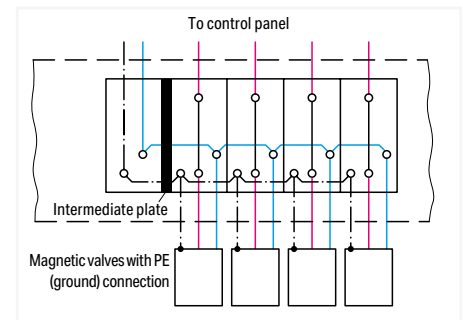
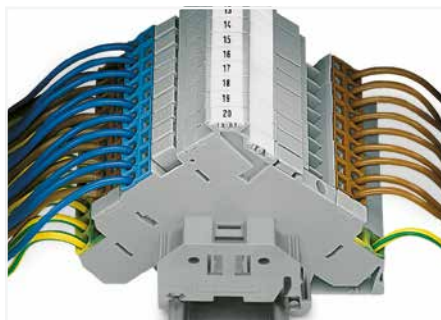
gray	280-402	200 (25)
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Actuator terminal block (ground connection) paired with a magnetic valve



Min. mounting distance – terminal blocks to cable duct



Power supply from control panel side

Actuator LED Terminal Block; with Ground Connection

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
24 VDC ①	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

Technical Data

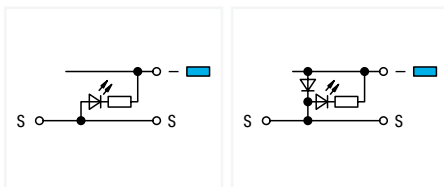
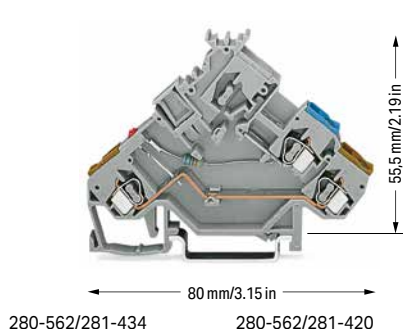
0.08 ... 2.5 mm ²	28 ... 12 AWG*
24 VDC ①	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 ... 9 mm / 0.31 ... 0.35 inch	

*12 AWG: THHN, THWN

① Other voltages are available upon request.

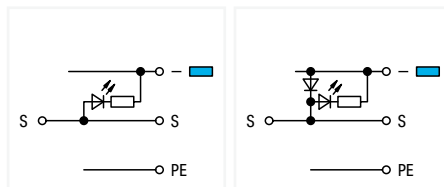
Please observe the application notes:
Insulation stop, page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Actuator LED terminal block; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-562/281-434	50



Actuator LED terminal block; with ground connection; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-572/281-434	50

Actuator LED terminal block; with 1N4007 recovery diode; red LED; LED power consumption: 4.8 mA

gray	280-562/281-420	50
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Actuator LED terminal block; with ground connection; with 1N4007 recovery diode; red LED; LED power consumption: 4.8 mA

gray	280-572/281-420	50
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Accessories; item-specific

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

orange	280-321	100 (25)
gray	280-319	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	280-323	100 (25)
gray	280-320	100 (25)

Accessories; 280 Series

Appropriate marking system: WMB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

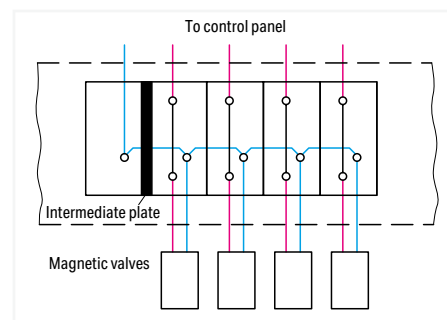
dark gray	280-472	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

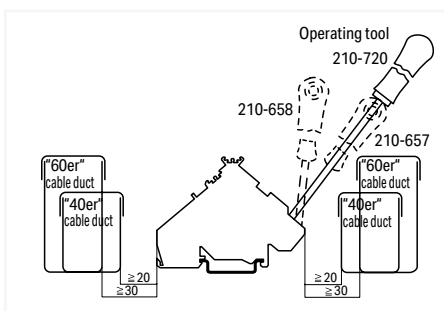
light gray	280-471	200 (25)
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Adjacent jumper; insulated; I_N = I_N terminal block

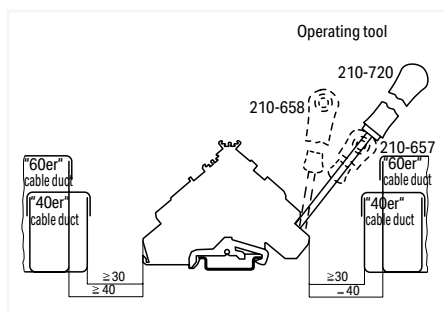
gray	280-402	200 (25)
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Power supply from control panel side



Min. mounting distance – terminal blocks to cable duct



Min. mounting distance – terminal blocks to cable duct

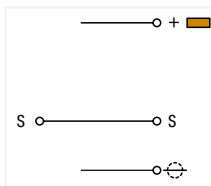
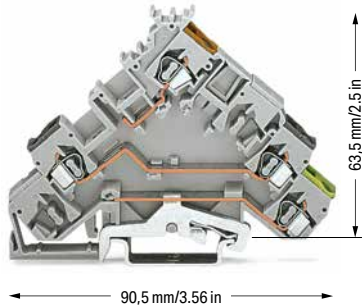
Actuator Terminal Block for Actuators with Shield Connection and Actuators with Shield Conductor Through Contact (e.g., for Thermocouples)

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 20 A	300 V, 15 A @

Terminal block width: 5 mm / 0.197 inch

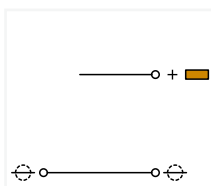
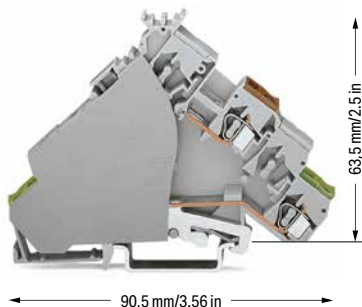
 8 ... 9 mm / 0.31 ... 0.35 inch

Actuator terminal block; with shield connection

Color	Item No.	Pack. Unit
gray	280-585	50

Accessories; item-specific

see page 361

Actuator supply terminal block; with shield connection; power supply from control panel side; with end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-586	10

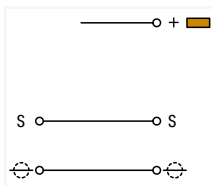
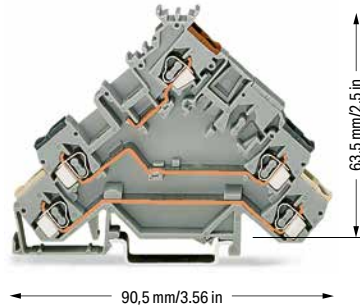
Accessories; item-specific

see page 361

Technical Data

0.08 ... 2.5 mm ²	28 ... 12 AWG*
400 V / 6 kV / 3 ①	300 V, 15 A 
I _N 20 A	

Terminal block width: 5 mm / 0.197 inch

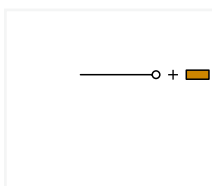
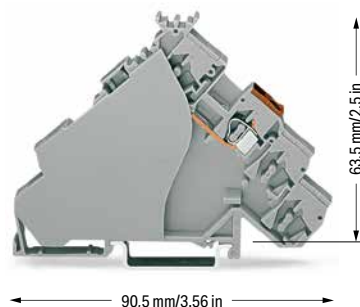
 8 ... 9 mm / 0.31 ... 0.35 inch

Actuator terminal block; with shield conductor through contact

Color	Item No.	Pack. Unit
gray	280-583	50

Accessories; item-specific

see page 361

Actuator supply terminal block; power supply from control panel side; with end plate; for actuators with shield conductor through contact
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-515	50

Accessories; item-specific

see page 361

*12 AWG: THHN, THWN

- ① 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 15)

Please observe the application notes:
Insulation stop, see page 425
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com



Power supply from control panel side



Power supply from control panel side

Diode Terminal Block and LED Terminal Block

1.5 mm²; 279 Series

Technical Data

0.08 ... 1.5 mm² | 28 ... 16 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 4 mm / 0.157 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

0.08 ... 1.5 mm² | 28 ... 16 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 4 mm / 0.157 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

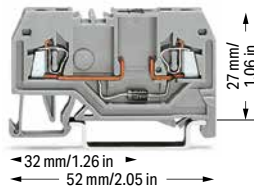
0.08 ... 1.5 mm² | 28 ... 16 AWG

24 VDC

I_F 0.025 A max.

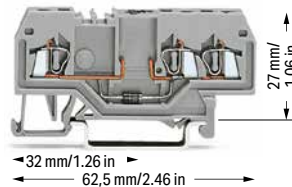
Terminal block width: 4 mm / 0.157 inch

8 ... 9 mm / 0.31 ... 0.35 inch



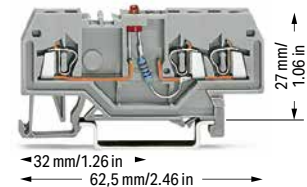
279-915/281-410

279-915/281-411



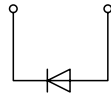
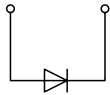
279-673/281-410

279-673/281-411



279-674/281-434

279-674/281-413

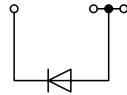
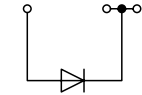


2-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode left	279-915/281-410	100
○ anode right	279-915/281-411	100

Other terminal blocks with the same profile:

Through	279-901	Page 312
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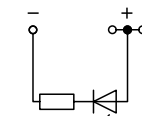
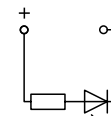


3-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode left	279-673/281-410	100
○ anode right	279-673/281-411	100

Other terminal blocks with the same profile:

Through	279-681	Page 312
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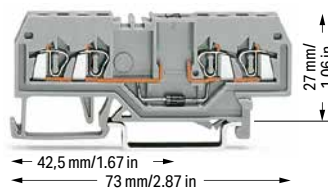


3-conductor LED terminal block; with red LED; gray

	Item No.	Pack. Unit
○ anode left	279-674/281-434	100
○ anode right	279-674/281-413	100

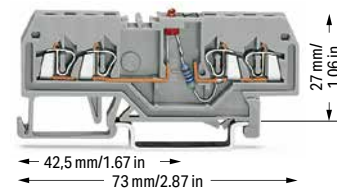
Other terminal blocks with the same profile:

Through	279-681	Page 312
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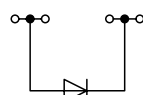
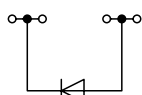
279-815/281-411

279-815/281-410



279-809/281-434

279-809/281-413

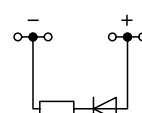
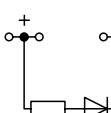


4-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode right	279-815/281-411	100
○ anode left	279-815/281-410	100

Other terminal blocks with the same profile:

Through	279-831	Page 312
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4-conductor LED terminal block; with red LED; gray

	Item No.	Pack. Unit
○ anode left	279-809/281-434	100
○ anode right	279-809/281-413	100

Other terminal blocks with the same profile:

Through	279-831	Page 312
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Diode Terminal Blocks and LED Terminal Blocks

Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 279 Series

Appropriate marking system:
WMB/WMB Inline

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	279-470	200 (25)
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Insulation stop; 0.25 mm²; 5 pcs/strip

	dark gray	279-471	200 (25)
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Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	279-482	200 (25)
	3-way	279-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

	10-way	279-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

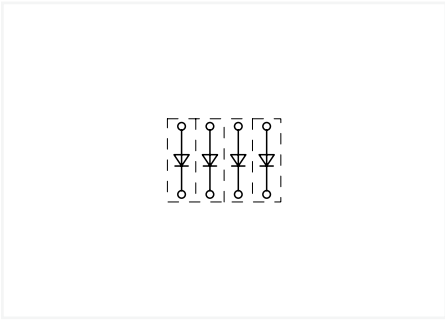
	2-way	279-492	200 (25)
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Operating tool; insulated

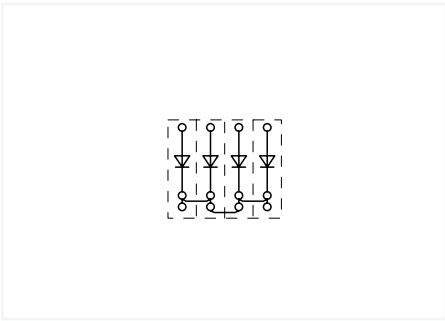
	2-way	279-432	1
	3-way	279-433	1

Operating tool; insulated

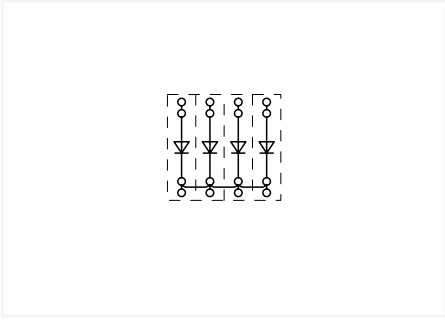
	10-way	279-440	1
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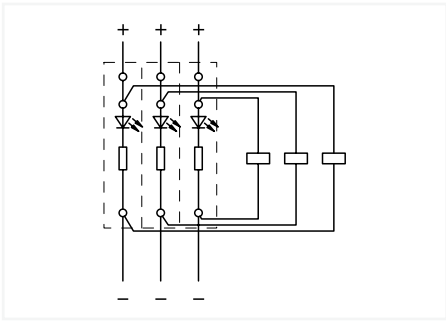
Open diode gates can be created using the following terminal blocks:
279-915/281-410 or 279-915/281-411



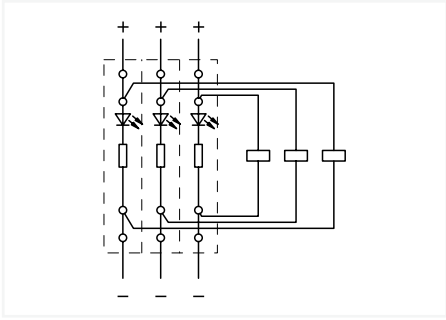
Polarized diode gates with a common cathode can be created using the following terminal blocks:
279-673/281-410 or 279-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
279-815/281-410 or 279-815/281-411



Circuit-related voltage indications can be created using the following terminal blocks:
279-674/281-434 or 279-674/281-413



Circuit-related voltage indications can be created using the following terminal blocks:
279-809/281-434 or 279-809/281-413

Diode Terminal Block and LED Terminal Block

2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm² | 28 ... 14 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

0.08 ... 2.5 mm² | 28 ... 14 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

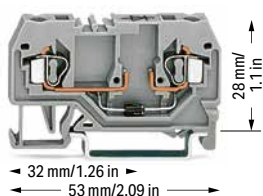
0.08 ... 2.5 mm² | 28 ... 14 AWG

24 VDC

I_F 0.025 A max.

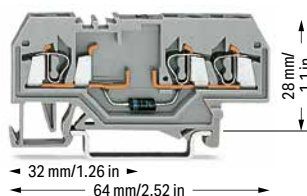
Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



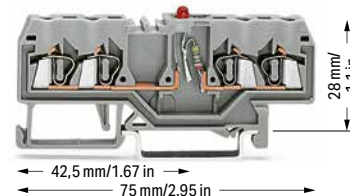
280-915/281-410

280-915/281-411



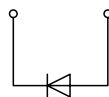
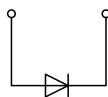
280-673/281-410

280-673/281-411



280-809/281-434

280-809/281-413

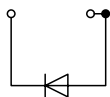
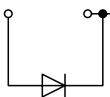


2-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode left	280-915/281-410	100
○ anode right	280-915/281-411	100

Other terminal blocks with the same profile:

Through 280-901 Page 314

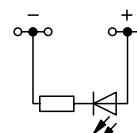
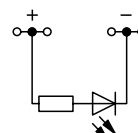


3-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode left	280-673/281-410	100
○ anode right	280-673/281-411	100

Other terminal blocks with the same profile:

Through 280-681 Page 314

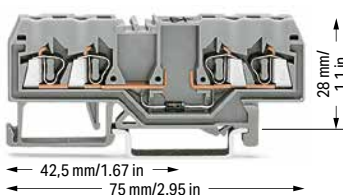


4-conductor LED terminal block; with red LED; gray

	Item No.	Pack. Unit
○ anode left	280-809/281-434	100
○ anode right	280-809/281-413	100

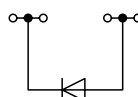
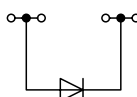
Other terminal blocks with the same profile:

Through 280-833 Page 314



280-815/281-410

280-815/281-411



4-conductor diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode left	280-815/281-410	100
○ anode right	280-815/281-411	100

Other terminal blocks with the same profile:

Through 280-833 Page 314

Diode Terminal Blocks and LED Terminal Blocks

Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB/WMB Inline

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

	dark gray	280-472	200 (25)
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Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-482	200 (25)
	3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

	10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-492	200 (25)
---	-------	---------	----------

Operating tool; insulated

	2-way	280-432	1
	3-way	280-433	1

Operating tool; insulated

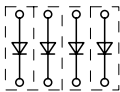
	10-way	280-440	1
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Wire commoning chain; insulated; 50 connections; I_N 8 A

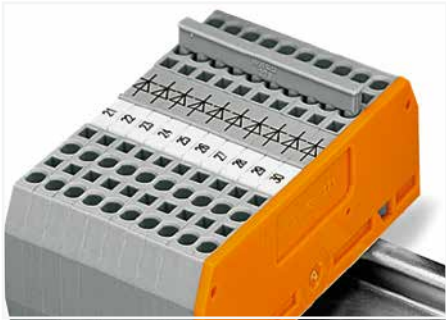
	black	210-103	5
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Wire commoning chain; insulated; 50 connections; I_N 8 A

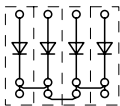
	blue	210-123	5
---	------	---------	---



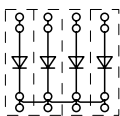
Open diode gates can be created using the following terminal blocks:
280-915/281-410 or 280-915/281-411



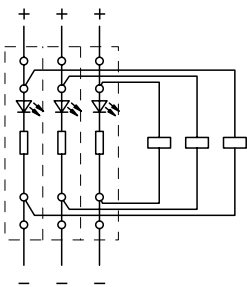
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with a common cathode can be created using the following terminal blocks:
280-673/281-410 or 280-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
280-815/281-410 or 280-815/281-411



Circuit-related voltage indications can be created using the following terminal blocks:
280-809/281-434 or 280-809/281-413

Diode Terminal Block

4 mm²; 281 Series

Technical Data

0.08 ... 4 mm² | 28 ... 12 AWGU_N 250 V; U_{RM} 1000 V

Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch

Technical Data

0.08 ... 4 mm² | 28 ... 12 AWGU_N 250 V; U_{RM} 1000 V

Terminal block width: 6 mm / 0.236 inch

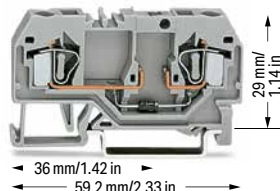
9 ... 10 mm / 0.35 ... 0.39 inch

Technical Data

0.08 ... 4 mm² | 28 ... 12 AWGU_N 250 V; U_{RM} 1000 V

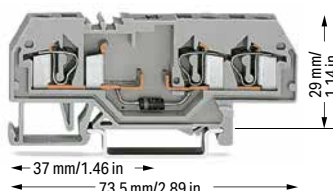
Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch



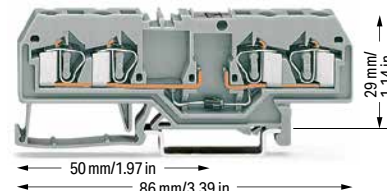
281-915/281-410

281-915/281-411



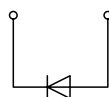
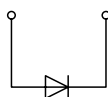
281-673/281-410

281-673/281-411

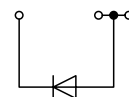
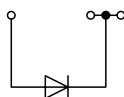


281-665/281-410

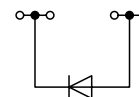
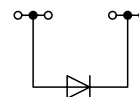
281-665/281-410

2-conductor diode terminal block; with 1N4007 diode;
0.5 A continuous current; gray

	Item No.	Pack. Unit
○ anode left	281-915/281-410	50
○ anode right	281-915/281-411	50

3-conductor diode terminal block; with 1N4007 diode;
0.5 A continuous current; gray

	Item No.	Pack. Unit
○ anode left	281-673/281-410	50
○ anode right	281-673/281-411	50

4-conductor diode terminal block; with 1N4007 diode;
0.5 A continuous current; gray

	Item No.	Pack. Unit
○ anode left	281-665/281-410	50
○ anode right	281-665/281-411	50

2-conductor diode terminal block; with 1N5408 diode;
1.5 A continuous current; gray

○ anode left	281-915/281-400	50
○ anode right	281-915/281-401	50

3-conductor diode terminal block; with 1N5408 diode;
1.5 A continuous current; gray

○ anode left	281-673/281-400	50
○ anode right	281-673/281-401	50

4-conductor diode terminal block; with 1N5408 diode;
1.5 A continuous current; gray

○ anode left	281-665/281-400	50
○ anode right	281-665/281-401	50

Other terminal blocks with the same profile:

Through	281-901	Page 318
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Other terminal blocks with the same profile:

Through	281-681	Page 318
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Other terminal blocks with the same profile:

Through	280-652	Page 318
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Diode Terminal Blocks

Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking system:
WMB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	281-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	281-471	200 (25)
---	------------	---------	----------

Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

	dark gray	281-472	200 (25)
---	-----------	---------	----------

Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	281-482	100 (25)
	3-way	281-483	100 (25)
	5-way	281-485	100 (25)
	10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	281-492	100 (25)
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Operating tool; insulated

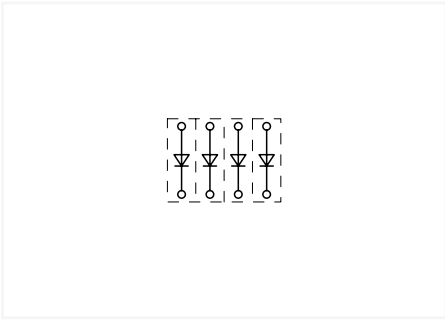
	2-way	280-432	1
	3-way	280-433	1
	5-way	281-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

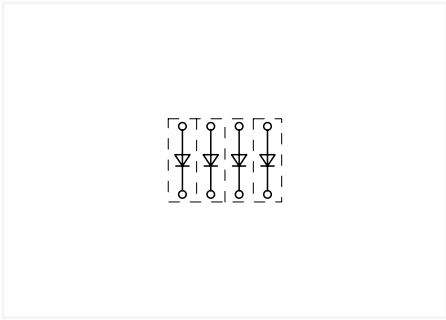
	black	210-103	5
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Wire commoning chain; insulated; 50 connections; I_N 8 A

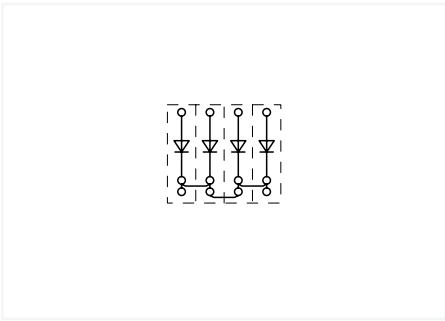
	blue	210-123	5
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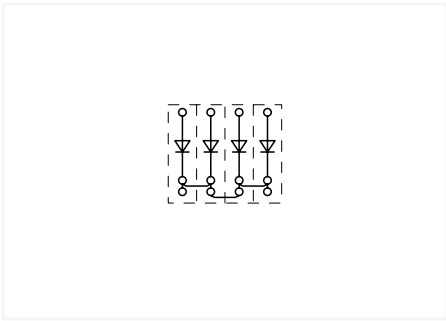
Open diode gates can be created using the following terminal blocks:
281-915/281-410 or 281-915/281-411



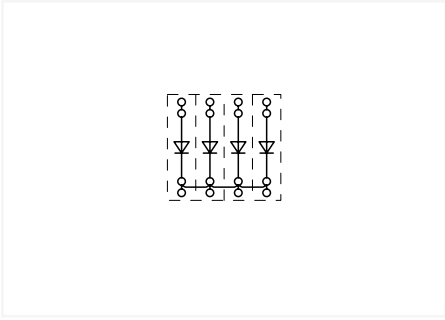
Open diode gates can be created using the following terminal blocks:
281-915/281-400 or 281-915/281-401



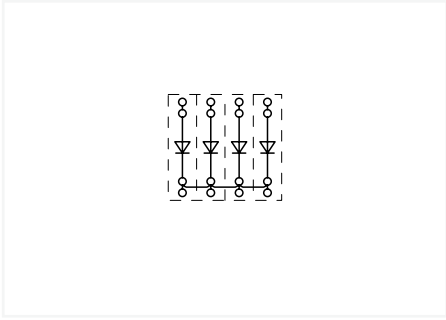
Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-673/281-410 or 281-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-673/281-400 or 281-673/281-401



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-665/281-410 or 281-665/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-665/281-400 or 281-665/281-401

Double-Deck Diode Terminal Block and LED Terminal Block 2.5 mm²; 280 Series

Technical Data

0.08 ... 2.5 mm² | 28 ... 14 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

0.08 ... 2.5 mm² | 28 ... 14 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch

Technical Data

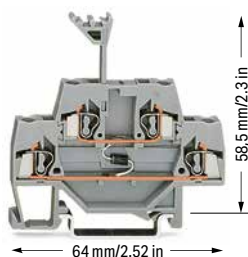
0.08 ... 2.5 mm² | 28 ... 14 AWG

24 VDC

I_F 0.025 A max.

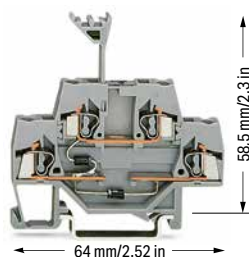
Terminal block width: 5 mm / 0.197 inch

8 ... 9 mm / 0.31 ... 0.35 inch



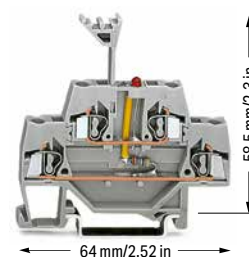
280-940/281-410

280-940/281-411



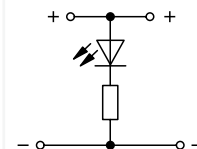
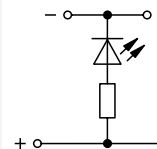
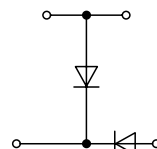
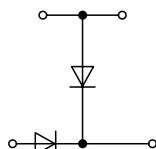
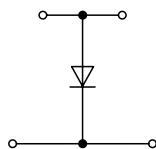
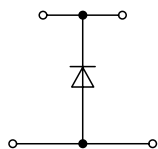
280-941/281-492

280-941/281-491



280-943/281-434

280-943/281-413



Double-deck diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode bottom	280-940/281-410	50
○ anode top	280-940/281-411	50

Double-deck diode terminal block; with two 1N4007 diodes; gray

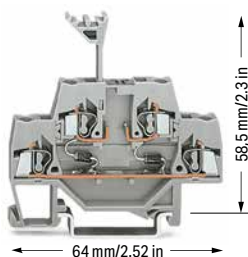
	Item No.	Pack. Unit
○ anode top, anode left	280-941/281-492	50
○ anode top, anode right	280-941/281-491	50

Double-deck LED terminal block; with red LED; gray

	Item No.	Pack. Unit
○ anode bottom	280-943/281-434	50
○ anode top	280-943/281-413	50

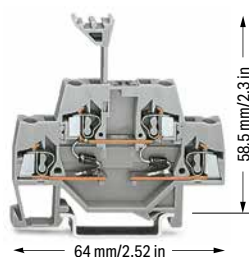
Other terminal blocks with the same profile:

Through	280-519	Page 292
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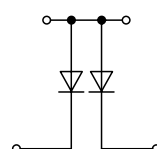
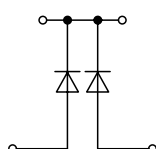
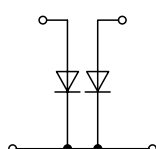
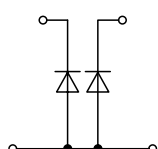
280-942/281-487

280-942/281-488



280-941/281-489

280-941/281-490



Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anodes bottom	280-942/281-487	50
○ anodes top	280-942/281-488	50

Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anodes bottom	280-941/281-489	50
○ anodes top	280-941/281-490	50

Double-Deck Diode Terminal Blocks and LED Terminal Blocks

Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 2.5 mm thick

	orange	280-341	100 (25)
	gray	280-340	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	280-470	200 (25)
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Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

	dark gray	280-472	200 (25)
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Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-482	200 (25)
	3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

	10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-492	200 (25)
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Operating tool; insulated

	2-way	280-432	1
	3-way	280-433	1

Operating tool; insulated

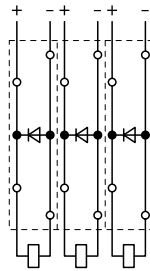
	10-way	280-440	1
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Wire commoning chain; insulated; 50 connections; I_N 8 A

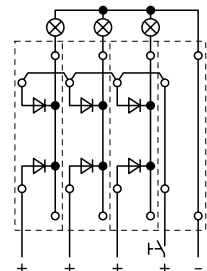
	black	210-103	5
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Wire commoning chain; insulated; 50 connections; I_N 8 A

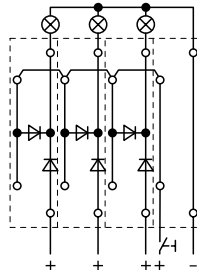
	blue	210-123	5
---	------	---------	---



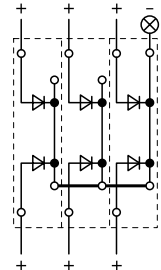
Recovery diodes can be created using the following terminal blocks:
280-940/281-410 or 280-940/281-411



Lamp test circuits can be created using the following terminal blocks:
280-942/281-487 or 280-942/281-488

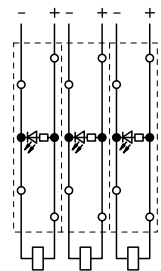


Lamp test circuits can be created using the following terminal blocks:
280-941/281-492 or 280-941/281-491



Collective fault signals can be created using the following terminal blocks:
280-941/281-489 or 280-941/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits. Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits. These terminal blocks provide high-density wiring in a width of just 5 mm.



Circuit-related voltage indications can be created using the following terminal blocks:
280-943/281-434 or 280-943/281-413

Double-Deck Diode Terminal Block and LED Terminal Block 4 mm²; 281 Series

Technical Data

0.08 ... 4 mm² | 28 ... 12 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch

Technical Data

0.08 ... 4 mm² | 28 ... 12 AWGU_N 250 V; U_{RM} 1000 V

1N4007 – 0.5 A continuous current

Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch

Technical Data

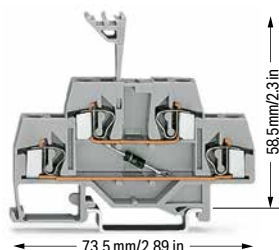
0.08 ... 4 mm² | 28 ... 12 AWG

24 VDC

I_F 0.025 A max.

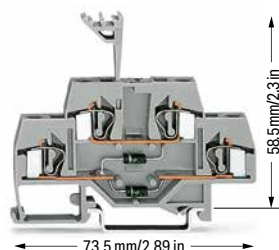
Terminal block width: 6 mm / 0.236 inch

9 ... 10 mm / 0.35 ... 0.39 inch



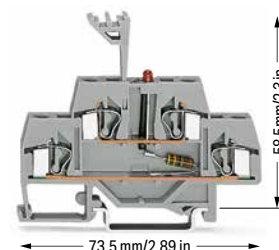
281-633/281-410

281-633/281-411



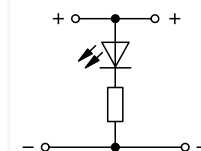
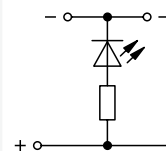
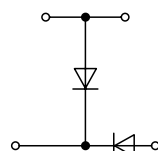
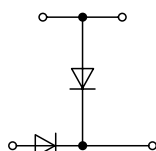
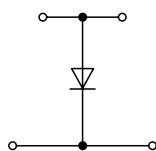
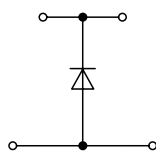
281-635/281-492

281-635/281-491



281-634/281-434

281-634/281-413



Double-deck diode terminal block; with 1N4007 diode; gray

	Item No.	Pack. Unit
○ anode bottom	281-633/281-410	50
○ anode top	281-633/281-411	50

Double-deck diode terminal block; with two 1N4007 diodes; gray

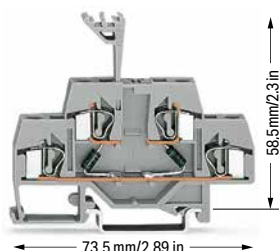
	Item No.	Pack. Unit
○ anode top, anode left	281-635/281-492	50
○ anode top, anode right	281-635/281-491	50

Double-deck LED terminal block; with red LED; gray

	Item No.	Pack. Unit
○ anode bottom	281-634/281-434	50
○ anode top	281-634/281-413	50

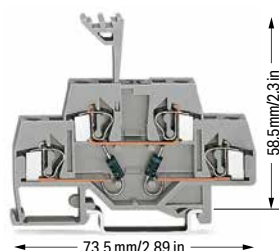
Other terminal blocks with the same profile:

Through 281-619 Page 296



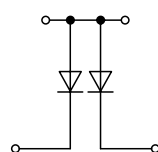
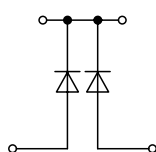
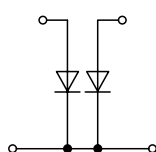
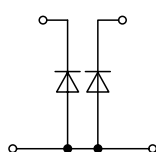
281-636/281-487

281-636/281-488



281-635/281-489

281-635/281-490



Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anodes bottom	281-636/281-487	50
○ anodes top	281-636/281-488	50

Double-deck diode terminal block; with two 1N4007 diodes; gray

	Item No.	Pack. Unit
○ anodes bottom	281-635/281-489	50
○ anodes top	281-635/281-490	50

Double-Deck Diode Terminal Blocks and LED Terminal Blocks

Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

End and intermediate plate; 2.5 mm thick

	orange	281-341	100 (25)
	gray	281-340	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

	white	281-470	200 (25)
---	-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

	light gray	281-471	200 (25)
---	------------	---------	----------

Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

	dark gray	281-472	200 (25)
---	-----------	---------	----------

Comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	281-482	100 (25)
	3-way	281-483	100 (25)
	5-way	281-485	100 (25)
	10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-492	200 (25)
---	-------	---------	----------

Operating tool; insulated

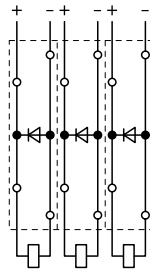
	2-way	280-432	1
	3-way	280-433	1
	5-way	281-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

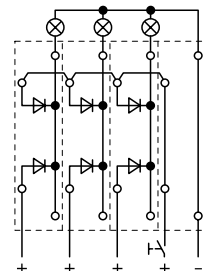
	black	210-103	5
---	-------	---------	---

Wire commoning chain; insulated; 50 connections; I_N 8 A

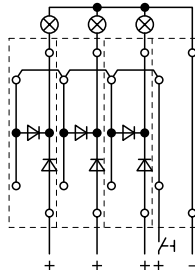
	blue	210-123	5
---	------	---------	---



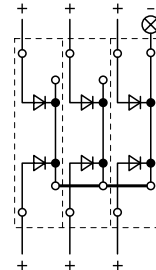
Recovery diodes can be created using the following terminal blocks:
281-633/281-410 or 281-633/281-411



Lamp test circuits can be created using the following terminal blocks:
281-636/281-487 or 281-636/281-488

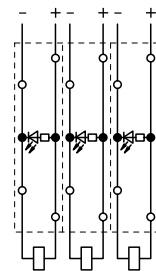


Lamp test circuits can be created using the following terminal blocks:
281-635/281-492 or 281-635/281-491



Collective fault signals can be created using the following terminal blocks:
281-635/281-489 or 281-635/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits. Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits. These terminal blocks provide high-density wiring in a width of just 6 mm.



Circuit-related voltage indications can be created using the following terminal blocks:
281-634/281-434 or 281-634/281-413

Pluggable Diode Module on Carrier Terminal Block 2.5 mm² 280 Series

Technical Data

U_N 250 V; U_{RM} 1000 V

I_N 0.5 A

Plug width: 5 mm / 0.197 inch



*12 AWG: THHN, THWN

Please observe the application notes:

Insulation stop, page 425

Comb-style jumper bar, page 426

Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking system:
WMB

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)
-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)
-----------	---------	----------

Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

10-way	280-490	50 (25)
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Alternate comb-style jumper bar; insulated; $I_N = I_N$ of terminal block

2-way	280-492	200 (25)
-------	---------	----------

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1
--------	---------	---

Wire commoning chain; insulated; 50 connections; I_N 8 A

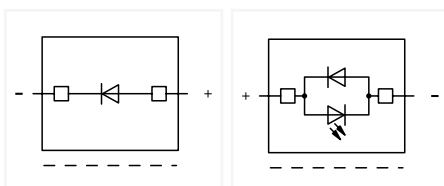
black	210-103	5
-------	---------	---

Wire commoning chain; insulated; 50 connections; I_N 8 A

blue	210-123	5
------	---------	---

280-801/281-411

280-801/281-420



Diode module; with 1N4007 diode; 5 mm wide; gray

	Item No.	Pack. Unit
○ anode right	280-801/281-411	100

Diode module; with 1N4007 recovery diode; red LED; 5 mm wide; gray

○ 24 VDC	280-801/281-420	100
○ 48 VDC	280-801/281-421	100

Accessories; Carrier Terminal Blocks

Appropriate marking system:
WMB

2-conductor carrier terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch

gray	280-916	100
------	---------	-----

End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)

3-conductor carrier terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch

gray	280-610	100
------	---------	-----

End and intermediate plate; 2.5 mm thick

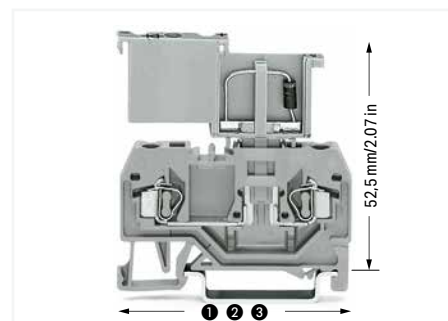
orange	280-326	100 (25)
gray	280-324	100 (25)

4-conductor carrier terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch

gray	280-816	100
------	---------	-----

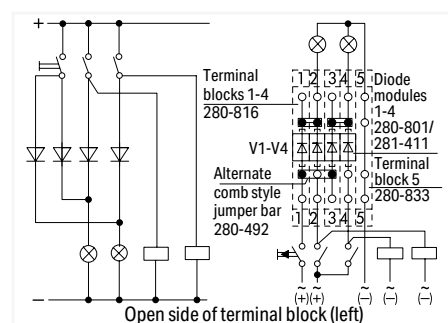
End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)



Lengths of carrier terminal blocks with a pluggable diode module:

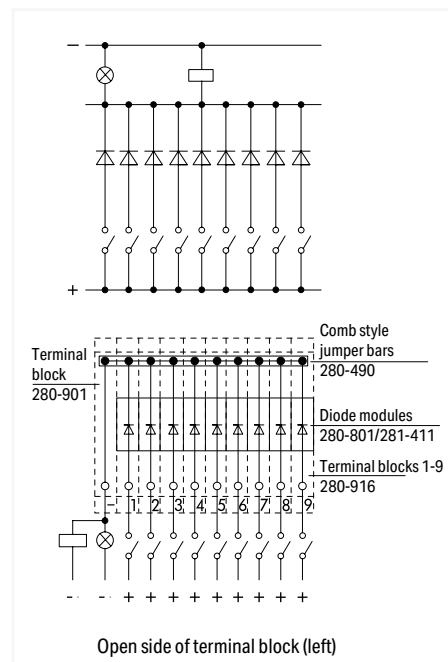
- ① 53 mm / 2.09 inch for 280-916
- ② 64 mm / 2.52 inch for 280-610
- ③ 75 mm / 2.95 inch for 280-816



Lamp test circuit with blocking diodes

These diode modules are ideal for custom diode circuits (e.g., lamp test and collective fault signal circuits) and offer the following advantages:

- Separation into functional and wiring levels
- Polarized switching direction
- Quick and easy module replacement
- Terminal blocks/modules provide high-density wiring in a width of just 5 mm



Diode gate for collective fault indication

Pluggable Diode Module on Through Terminal Block 2.5 mm² 280 Series

Technical Data

U_N 250 V; U_{RM} 1000 V

I_N 0.5 A

Plug width: 10 mm / 0.394 inch



*12 AWG: THHN, THWN

Please observe the application notes:
Insulation stop, page 425
Comb-style jumper bar, page 426
Marking, from page 684

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

2-conductor through terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch



gray	280-101	100
------	---------	-----

End and intermediate plate; 2.5 mm thick



orange	280-302	100 (25)
gray	280-301	100 (25)

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip



white	280-470	200 (25)
-------	---------	----------

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip



light gray	280-471	200 (25)
------------	---------	----------

Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip



dark gray	280-472	200 (25)
-----------	---------	----------

Adjacent jumper; insulated; $I_N = I_N$ terminal block



gray	280-402	200 (25)
------	---------	----------

Wire commoning chain; insulated; 50 connections; I_N 8 A



black	210-103	5
-------	---------	---

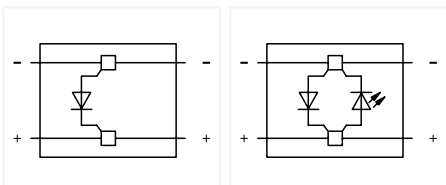
Wire commoning chain; insulated; 50 connections; I_N 8 A



blue	210-123	5
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280-803/281-411

280-803/281-420



Diode module; with 1N4007 diode; 10 mm wide; gray

	Item No.	Pack. Unit
○ anode right	280-803/281-411	50

Diode module; with 1N4007 recovery diode; red LED; 10 mm wide; gray

○ 24 VDC	280-803/281-420	50
----------	-----------------	----

Accessories; Through Terminal Blocks

Appropriate marking system:
WMB

2-conductor through terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch



gray	280-901	100
------	---------	-----

End and intermediate plate; 2.5 mm thick



orange	280-309	100 (25)
gray	280-308	100 (25)

3-conductor through terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch



gray	280-681	100
------	---------	-----

End and intermediate plate; 2.5 mm thick



orange	280-326	100 (25)
gray	280-324	100 (25)

4-conductor through terminal block;
0.08 ... 2.5 mm² / 28 ... 12 AWG*
Terminal block width: 5 mm / 0.197 inch

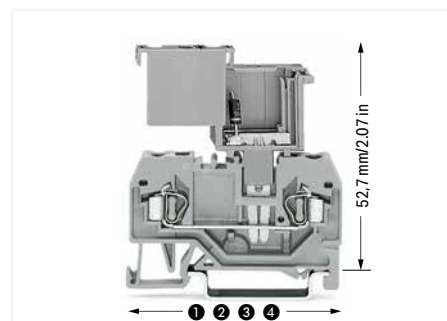


gray	280-833	100
------	---------	-----

End and intermediate plate; 2.5 mm thick



orange	280-315	100 (25)
gray	280-314	100 (25)



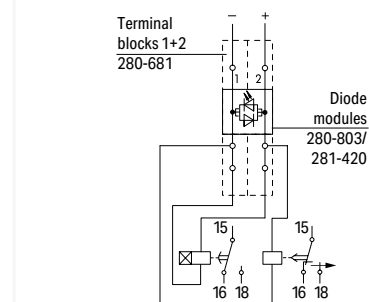
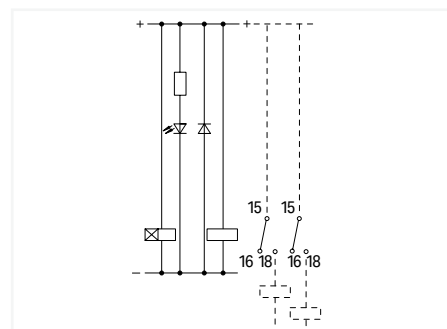
Lengths of through terminal blocks with a pluggable diode module:

- ① 53 mm / 2.09 inch for 280-901
- ② 64 mm / 2.52 inch for 280-681
- ③ 75 mm / 2.95 inch for 280-833
- ④ 45.5 mm / 1.67 inch for 280-101



Similar to push-in type jumpers, these diode modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:

- Compatibility with all 280 Series Through Terminal Blocks
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units



Free-wheeling diode and voltage check

Pluggable LED and Neon Indicator Module on Carrier Terminal Block 2.5 mm² 280 Series

Technical Data

Plug width: 5 mm / 0.197 inch



LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray

	Item No.	Pack. Unit
○ 24 VDC	280-801/281-413	100
○ 48 VDC	280-801/281-414	100

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray

○ 24 VAC/DC	280-801/281-415	100
○ 48 VAC/VDC	280-801/281-416	100

Neon indicator module; 5 mm wide; I_N 0.5 mA; gray

○ 120 VAC/VDC	280-801/281-418	100
○ 230 VAC/VDC	280-801/281-417	100

Carrier terminal blocks, see page 374

Circuit Diagrams

LED module

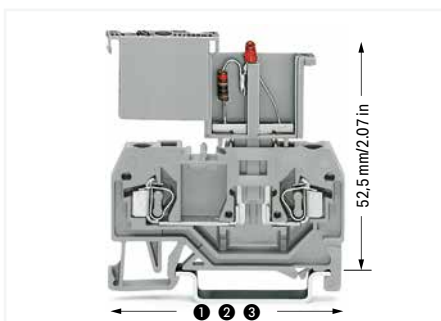
	24 VDC	280-801/281-413
	48 VDC	280-801/281-414

LED module

	24 VAC/DC	280-801/281-415
	48 VAC/VDC	280-801/281-416

Neon indicator module

	120 VAC/VDC	280-801/281-418
	230 VAC/VDC	280-801/281-417



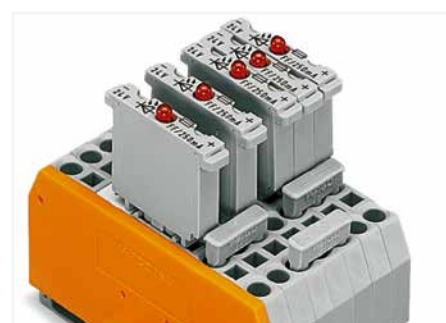
Lengths of carrier terminal blocks with a pluggable diode module:

- ① 53 mm / 2.09 inch for 280-916
- ② 64 mm / 2.52 inch for 280-610
- ③ 75 mm / 2.95 inch for 280-816

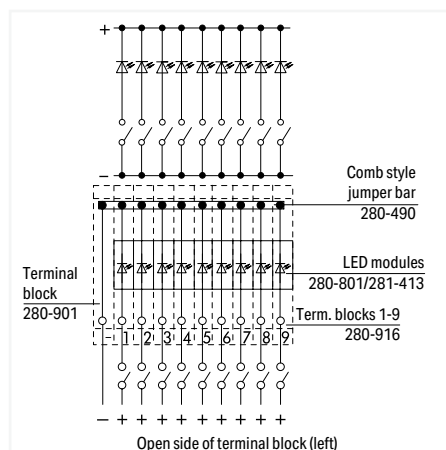


The monitoring of control and operating current circuits with LED modules on rail-mount terminal blocks provides several advantages:

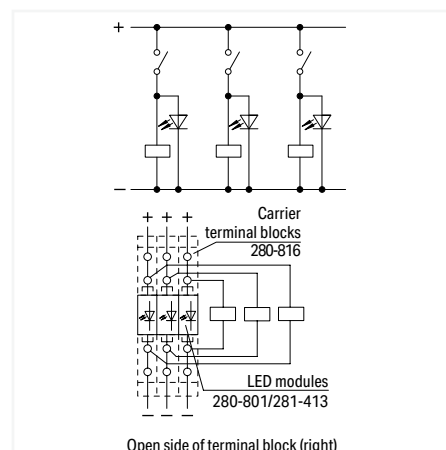
- No additional cost for assembly and wiring
- Separation into functional and wiring levels
- Modules can be replaced quickly by other types of modules
- Polarized switching direction
- Terminal blocks/modules provide high-density wiring in a width of just 5 mm



Carrier terminal blocks with component plugs, alternate comb-style jumper bars, 3-way, comb-style jumper bar



LED gate for collective fault indication – individual display



Voltage control assigned to current circuits

Pluggable LED and Neon Indicator Module on Through Terminal Block 2.5 mm² 280 Series

Technical Data

Plug width: 10 mm / 0.394 inch



LED module; with red LED; 10 mm wide; I_N 5.6 mA;
 I_F 25 mA; gray

	Item No.	Pack. Unit
○ 24 VDC	280-803/281-413	100
○ 48 VDC	280-803/281-414	100

LED module; with red LED; 10 mm wide; I_N 5.6 mA;
 I_F 25 mA; gray

○ 24 VAC/DC	280-803/281-415	100
○ 48 VAC/VDC	280-803/281-416	100

Neon indicator module; 10 mm wide; I_N 0.5 mA; gray

○ 120 VAC/VDC	280-803/281-418	100
○ 230 VAC/VDC	280-803/281-417	100

Through terminal blocks, see page 375

Circuit Diagrams

LED module

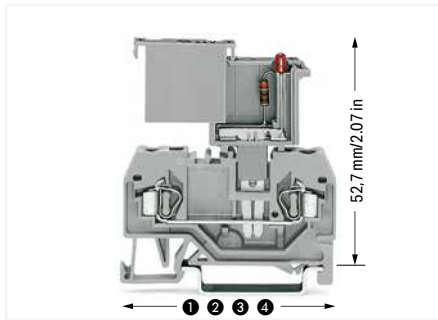
	24 VDC	280-803/281-413
	48 VDC	280-803/281-414

LED module

	24 VAC/DC	280-803/281-415
	48 VAC/VDC	280-803/281-416

Neon indicator module

	120 VAC/VDC	280-803/281-418
	230 VAC/VDC	280-803/281-417



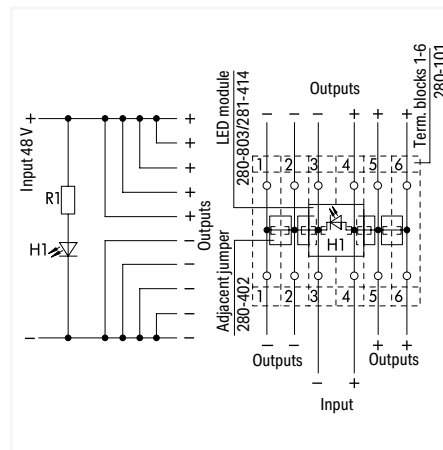
Lengths of through terminal blocks with a pluggable diode module:

- ① 53 mm / 2.09 inch for 280-901
- ② 64 mm / 2.52 inch for 280-681
- ③ 75 mm / 2.95 inch for 280-833
- ④ 45.5 mm / 1.67 inch for 280-101

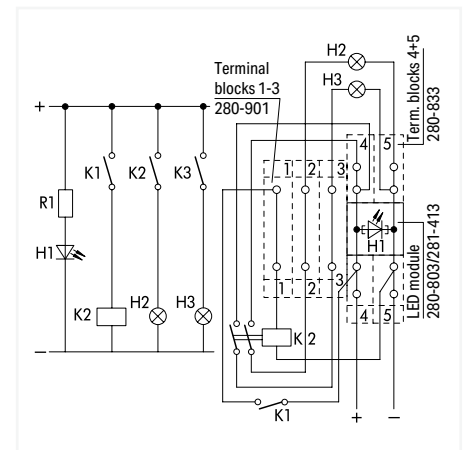


Similar to push-in type jumpers, these LED and neon indicator modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:

- Compatibility with all 280 Series Through Terminal Blocks
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units



Multiple outputs with indicator lamp



Control unit

CAGE CLAMP®

L-Type Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Conductor Entry

249 Series

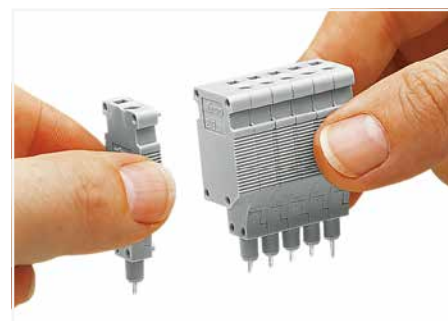
Technical Data

0.08 ... 1.5 mm² 28 ... 16 AWG
 Test voltage: 630 V Test current: 6 A
 Module width: 5 mm / 0.197 inch
 This test plug is not suitable for Ex e applications.



Technical Data

0.08 ... 2.5 mm² 28 ... 14 AWG
 Test voltage: 630 V Test current: 6 A
 Module width: 6 mm / 0.236 inch
 This test plug is not suitable for Ex e applications.



Snapping test plug and spacer modules together to assemble a multipole test plug module (max. 10 poles).

L-type test plug module; with spring-loaded contact pin; center module; snaps together
 Module width: 5 mm

Color	Item No.	Pack. Unit
gray	249-141	100 (25)

L-type end test plug module; with rigid contact pin; end module; snaps together
 Module width: 5 mm

gray	249-142	100 (25)
------	---------	----------

L-type spacer module; snaps together; bridges wired terminal blocks
 Module width: 5 mm

gray	249-143	100 (25)
------	---------	----------

L-type test plug module; with spring-loaded contact pin; center module; snaps together
 Module width: 6 mm

Color	Item No.	Pack. Unit
gray	249-144	100 (25)

L-type end test plug module; with rigid contact pin; end module; snaps together
 Module width: 6 mm

gray	249-145	100 (25)
------	---------	----------

L-type spacer module; snaps together; bridges wired terminal blocks
 Module width: 6 mm

gray	249-146	100 (25)
------	---------	----------

Accessories; for L-type test plug modules

Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline

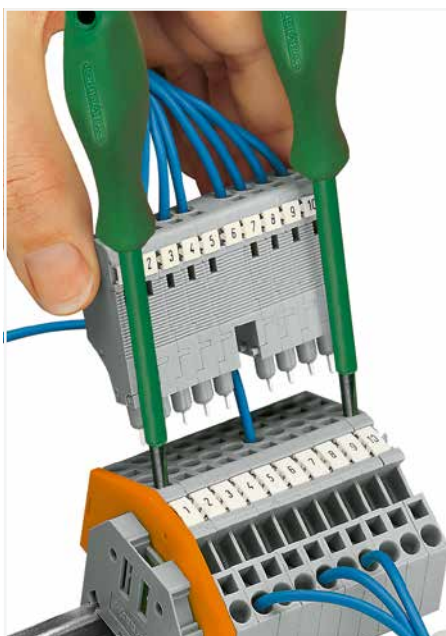
WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

plain	793-5501	5
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Mini-WSB marking card; 10 strips with 10 markers/card; 5 mm wide markers

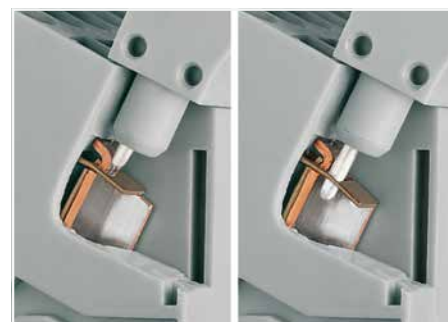
plain	248-501	5
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For easily testing terminal block assemblies, WAGO's L-type test plug modules with CAGE CLAMP® may be used on unwired terminal blocks. For testing, the module is assembled with spring-loaded pins in the center positions and rigid pin modules at the ends. The terminal blocks corresponding to the end position modules are opened using operating tools (as shown) – these rigid pins are then held in place by the CAGE CLAMP®.

The intermediate pins are spring-loaded and make contact with the current bars of the unwired clamping units. Clamping units needing to remain wired may be skipped by assembling a spacer in the test plug module.

Notice:
 Mating direction must be observed (see picture).



A = Center module with a spring-loaded contact pin
 B = End module with a rigid contact pin



CAGE CLAMP® connection
 0.08 ... 1.5 mm²; 5 mm wide module
 0.08 ... 2.5 mm²; 6 mm wide module

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

B-Type Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar 249 Series

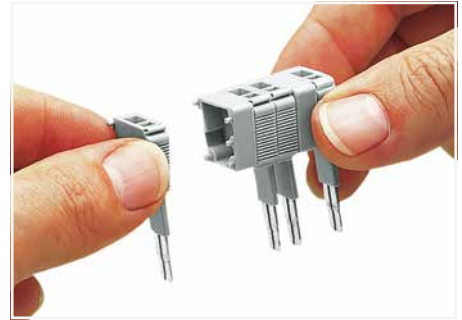
Technical Data

0.08 ... 1.5 mm ²	28 ... 16 AWG
Test voltage: 630 V	Test current: 10 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	



Technical Data

0.08 ... 2.5 mm ²	28 ... 14 AWG
Test voltage: 630 V	Test current: 10 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	



Snapping test plug and spacer modules together to assemble a multipole test plug module (max. 10 poles).

B-type test plug module; snaps together
Module width: 5 mm

Color	Item No.	Pack. Unit
○ gray	249-106	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks,
Module width: 5 mm

○ gray	249-107	100 (25)
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B-type test plug module; snaps together
Module width: 6 mm

Color	Item No.	Pack. Unit
○ gray	249-147	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks,
Module width: 6 mm

○ gray	249-148	100 (25)
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Accessories; for B-type test plug modules

Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 ... 5.2 mm stretchable

	white	2009-115	1
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Mini-WSB Inline, plain; 1,700 Mini-WSB markers (5 mm wide) per reel; stretchable 5 ... 5.2 mm

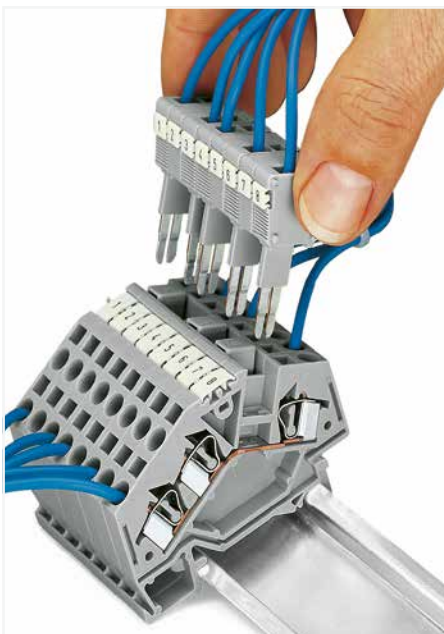
	white	2009-145	1
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WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 ... 5.2 mm

	plain	793-5501	5
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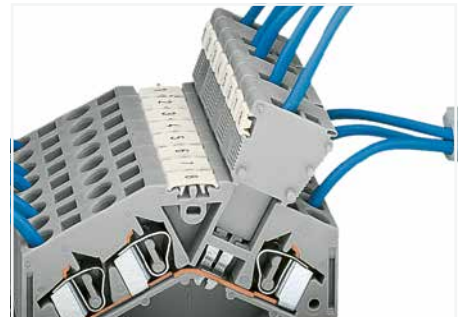
Mini-WSB marking card; 10 strips with 10 markers/card; 5 mm wide markers

	plain	248-501	5
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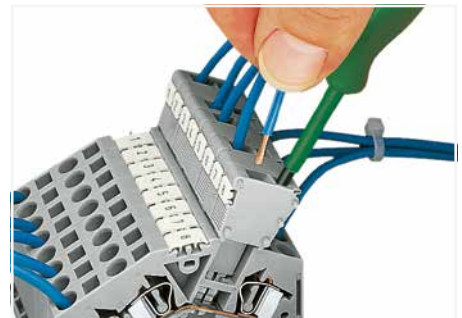


For testing individual circuits, offers a single-pole test plug accessory with CAGE CLAMP® up to 2.5 mm² (14 AWG) for direct contact with the current bar of a terminal block, or 1-pole test plug adapters for 4 mm Ø test plugs.

For serial testing on terminal block assemblies, has developed special multipole (max. 10-pole) modular test plug modules. WAGO's B-type test plug modules with CAGE CLAMP® connection are ideal for testing completely wired terminal blocks – even when using adjacent jumpers. For this testing type, the module assembly exactly matches the terminal block assembly. The test plug modules make direct contact to the jumper contact slots of the terminal blocks to be tested.



B-type test plugs are directly plugged into the jumper contact slot of the current bar.



CAGE CLAMP® connection
0.08 ... 1.5 mm²; 5 mm wide module
0.08 ... 2.5 mm²; 6 mm wide module

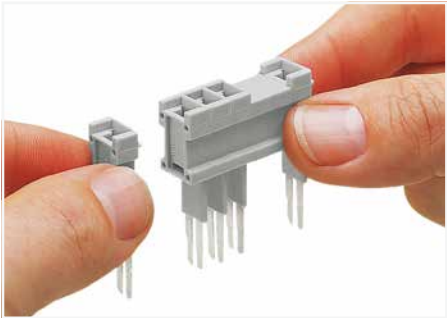
Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

Technical Data	
Test voltage: 400 V	Test current: 6 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	



Technical Data	
Test voltage: 400 V	Test current: 6 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	



Snapping test plug and spacer modules together to assemble a multipole test plug module.

Test plug module; snaps together		
Module width: 5 mm		
Color	Item No.	Pack. Unit
○ gray	280-418	100 (25)

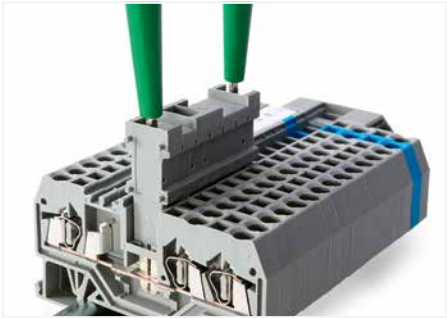
Spacer module; snaps together; bridges terminal blocks		
Module width: 5 mm		
○ gray	280-419	100 (25)

Test plug module; snaps together		
Module width: 6 mm		
Color	Item No.	Pack. Unit
○ gray	281-418	100 (25)

Spacer module; snaps together; bridges terminal blocks		
Module width: 6 mm		
○ gray	281-419	100 (25)

Accessories; for test plug modules

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V		
red	210-136	50



The test plug modules are directly plugged into the jumper contact slot of the current bar.

B-Type Test Plug Module for Testing 8 mm or 10 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

709 Series

Technical Data	
0.2 ... 6 mm²	24 ... 10 AWG
Test voltage: 800 V	Test current: 32 A
Module width: 8 mm / 0.315 inch	
This test plug is not suitable for Ex e applications.	



B-type test plug module; snaps together
Module width: 8 mm

Color	Item No.	Pack. Unit
○ gray	709-310	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks,
Module width: 8 mm

○ gray	709-311	100 (25)
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Accessories; item-specific

Strain relief plate; gray; for 8 mm wide terminal blocks

	2-pole	709-322	100 (25)
	4-pole	709-324	100 (25)
	6-pole	709-326	100 (25)

Technical Data	
Module width: 2 mm / 0.079 inch	
This intermediate plate is not suitable for Ex e applications.	



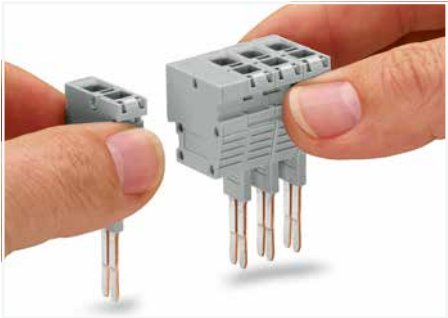
B-type spacer plate; snaps together; snaps on B-type test plug modules (709-310) and B-type spacer modules (709-311)
Module width: 2 mm

Color	Item No.	Pack. Unit
○ gray	709-312	100 (25)

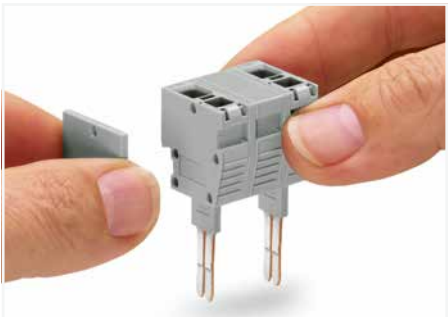
Accessories; item-specific

Strain relief plate; gray; for 10 mm wide terminal blocks

	2-pole	709-332	100 (25)
	4-pole	709-334	100 (25)
	6-pole	709-336	100 (25)



Snapping test plug and spacer modules together to assemble a multi-pole test plug module (max. 10 poles) for 8 mm terminal block width.



Snapping test plug and spacer modules (each with a spacer plate) together to assemble a multi-pole test plug module (max. 10 poles) for 10 mm terminal block width.



For testing individual circuits, offers a single-pole test plug accessory with CAGE CLAMP® up to 2.5 mm² (14 AWG) for direct contact with the current bar of a terminal block, or 1-pole test plug adapters for 4 mm Ø test plugs.

For serial testing on terminal block assemblies, has developed special multipole (max. 10-pole) modular test plug modules. WAGO's B-type test plug modules with CAGE CLAMP® connection are ideal for testing completely wired terminal blocks – even when using adjacent jumpers. For this testing type, the module assembly exactly matches the terminal block assembly. The test plug modules make direct contact to the jumper contact slots of the terminal blocks to be tested.

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.



The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 284 Series).

Conductor Insulation Stop for Conductors 0.08 ... 1.5 mm² / 28 ... 16 AWG

Technical Data

Terminal block width: 4 mm / 0.157 inch



Technical Data

Terminal block width: 5 mm / 0.197 inch



Technical Data

Terminal block width: 6 mm / 0.236 inch

Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

Color	Item No.	Pack. Unit
○ white	279-470	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip

● dark gray	279-471	200 (25)
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Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

Color	Item No.	Pack. Unit
○ white	280-470	200 (25)

Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

○ light gray	280-471	200 (25)
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Insulation stop; 0.75 ... 1 mm²; 5 pcs/strip

● dark gray	280-472	200 (25)
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Insulation stop; 0.08 ... 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

Color	Item No.	Pack. Unit
○ white	281-470	200 (25)

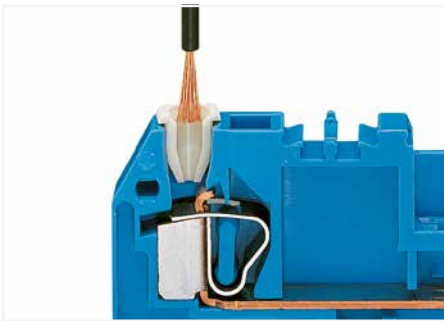
Insulation stop; 0.25 ... 0.5 mm²; 5 pcs/strip

○ light gray	281-471	200 (25)
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Insulation stop; 0.75 ... 1.5 mm²; 5 pcs/strip

● dark gray	281-472	200 (25)
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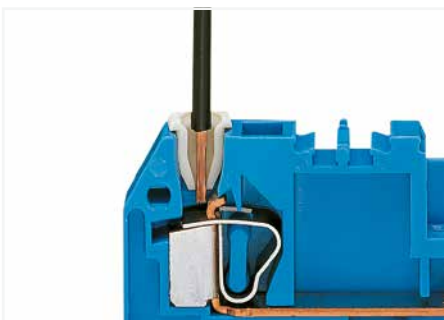
6



Insert stripped, untwisted conductor into insulation stop.



The problem: Wiring programmable logic controllers and microprocessor-operated control circuits often relies on very small, fine-stranded conductors. These conductors are highly flexible and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

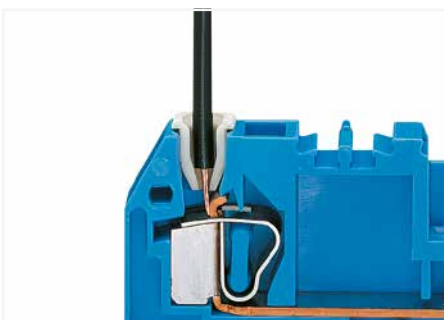


The conductor is bundled.

The solution: An insulation stop for rail-mount terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit.

Insulation stops are available as dividable 5-pole strips for 279, 280/780/870/880 and 281/781 Series Rail-Mount Terminal Blocks.

Insulation stop usage will not affect the conductor strip lengths for the aforementioned rail-mount terminal blocks.



The conductor insulation is prevented from being pushed into the clamping unit by the positive stop.

Comb-Style Jumper Bar and Alternate Comb-Style Jumper Bar

Operating Tool



Comb-style jumper bar; insulated; I _N = I _N of terminal block; for 279 Series		
	Item No.	Pack. Unit
○ 2-way	279-482	200 (25)
○ 3-way	279-483	200 (25)
○ 10-way	279-490	50 (25)

Comb-style jumper bar; insulated; I _N = I _N of terminal block; for 280/769/780/880 Series		
	Item No.	Pack. Unit
○ 2-way	280-482	200 (25)
○ 3-way	280-483	200 (25)
○ 10-way	280-490	50 (25)

Comb-style jumper bar; insulated; I _N = I _N of terminal block; for 281/781 Series		
	Item No.	Pack. Unit
○ 2-way	281-482	100 (25)
○ 3-way	281-483	100 (25)
○ 5-way	281-485	100 (25)
○ 10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I _N = I _N of terminal block		
○ 2-way	279-492	200 (25)

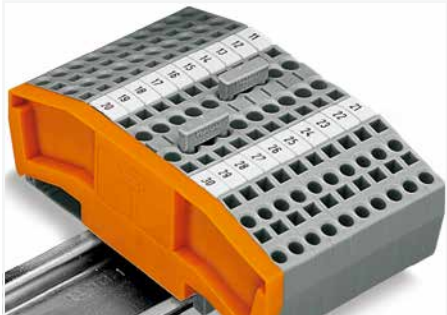
Alternate comb-style jumper bar; insulated; I _N = I _N of terminal block		
○ 2-way	280-492	200 (25)

Alternate comb-style jumper bar; insulated; I _N = I _N of terminal block		
○ 2-way	281-492	100 (25)

Operating tool; insulated		
2-way	279-432	1
3-way	279-433	1
10-way	279-440	1

Operating tool; insulated		
2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

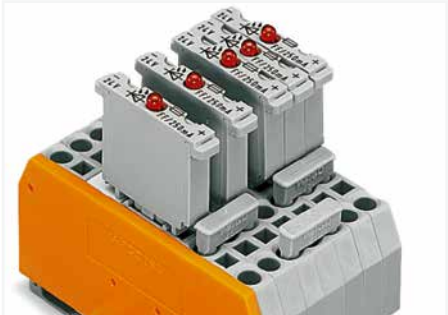
Operating tool; insulated		
2-way	280-432	1
3-way	280-433	1
5-way	281-440	1



Commoning using comb-style jumper bars.
Push comb-style jumper bars down until fully inserted.



4-conductor through terminal blocks, angled type –
formation of groups with 3-way, comb-style jumper bars



Carrier terminal blocks with component plugs,
alternate comb-style jumper bars,
3-way, comb-style jumper bar

Staggered Jumper

Technical Data
400 V / 6 kV / 3



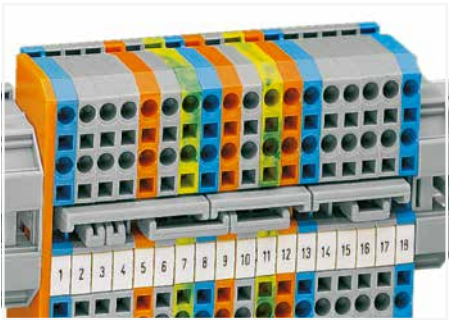
- 1

Suitable for Ex e II applications
Rated voltage (max.): 275 V
23 A, for 2-conductor terminal blocks
22 A, for 3-conductor terminal blocks
20 A, for 4-conductor terminal blocks
(see Section 15)
- 2

Suitable for Ex e II applications
Rated voltage (max.): 275 V; 26 A
(see Section 15)

Staggered jumper; insulated; 5 mm wide; I _N 24 A		
	Item No.	Pack. Unit
☐ 1 to 2	780-452 1	100 (25)
☐ 1 to 3	780-453 1	100 (25)
☐ 1 to 4	780-454 1	100 (25)
☐ 1 to 5	780-455 1	50 (25)
☐ 1 to 6	780-456 1	50 (25)
☐ 1 to 7	780-457 1	50 (25)
☐ 1 to 8	780-458 1	50 (25)

Staggered jumper; insulated; 6 mm wide; I _N 32 A		
☐ 1 to 2	781-452 2	100 (25)
☐ 1 to 3	781-453 2	100 (25)
☐ 1 to 4	781-454 2	100 (25)
☐ 1 to 5	781-455 2	50 (25)
☐ 1 to 6	781-456 2	50 (25)



Staggered jumpers for sophisticated circuit requirements
– push jumpers down until fully inserted.