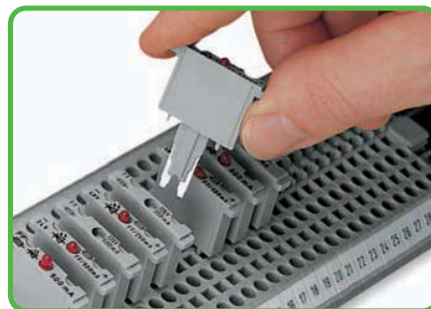


4 Electrical ratings are given by the fuse or LED nominal voltage (also see pages 234 – 235).

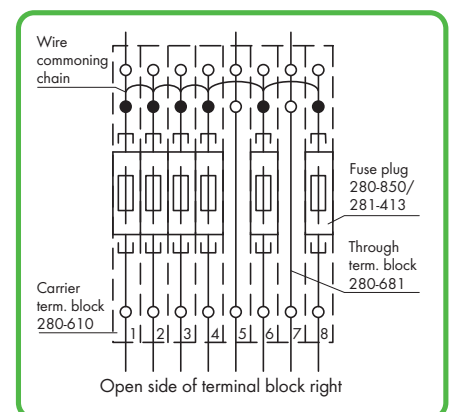


Using pluggable fuse holders with 280/281 and 769 Series rail-mount terminal blocks for control circuit protection is highly advantageous for the user, as the function and the wiring are accomplished by two separate parts:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts during disconnection of fuse plug
- Quick replacement of fuse plug in case of blown fuse
- The fuse plug can be removed by service personnel, avoiding unintentional reclosing of the circuit by another person.

Further advantages:

- Extremely high density with only 5 mm/0.197 in width of terminal block/fuse plug
- Optional LED indicates blown fuse.



Fuse protection of individual outputs, supply via wire commoning chain

Fuse Disconnect Terminal Blocks with Pivoting Fuse Holder, for Miniature Metric Fuses, 281 Series

Blown fuse indication



Blown fuse indication by LED or neon lamp.

Fuse replacement

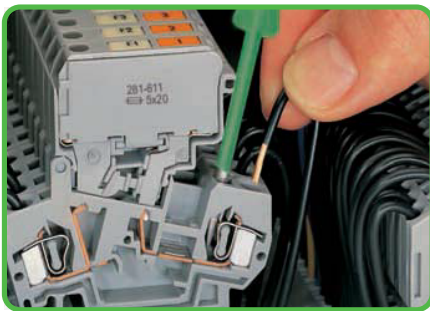


Before replacing the fuse, pivot the fuse holder in the locked open position.



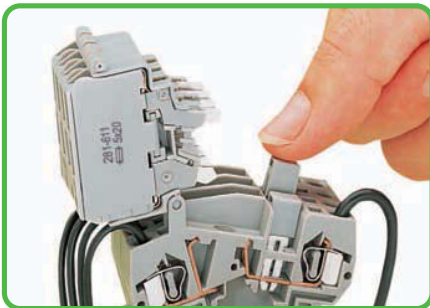
One end of the fuse is automatically ejected from the holder when opening the cover.

CAGE CLAMP® connection

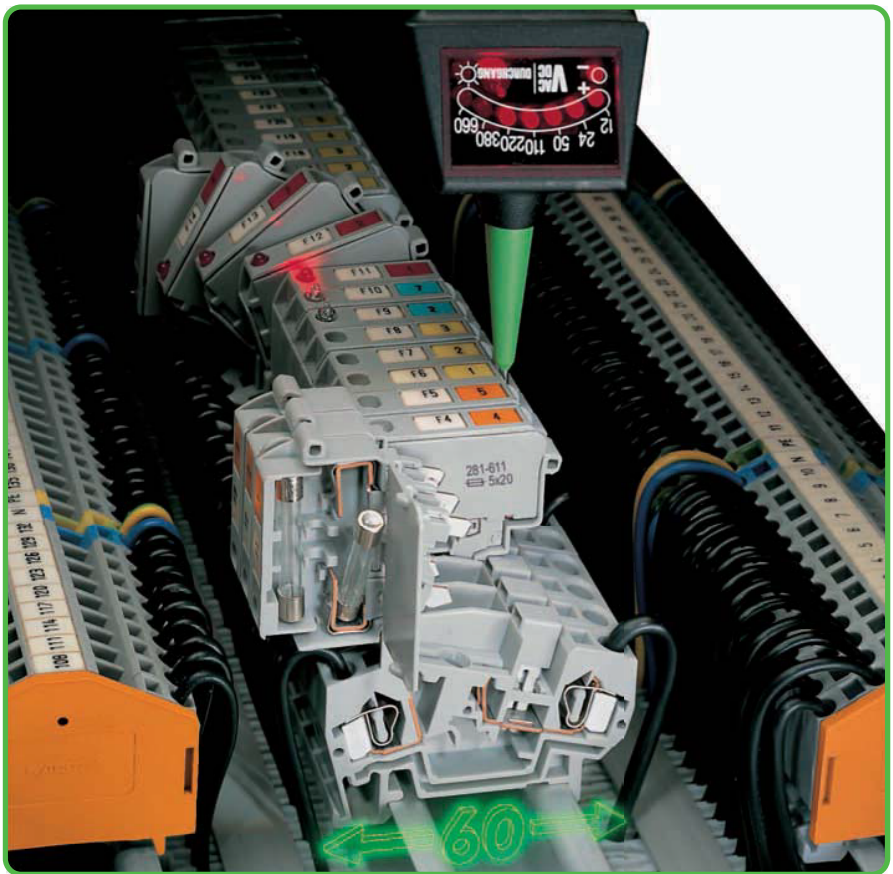


Conductor termination

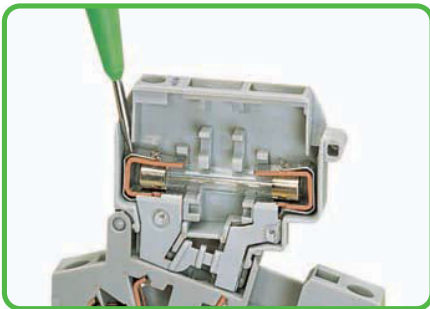
Commoning



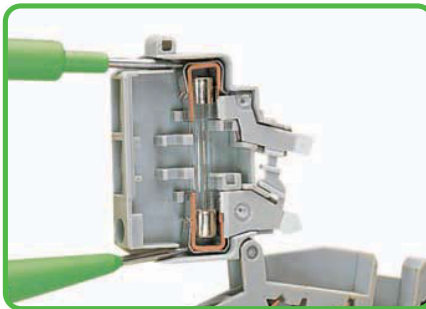
Distribution of current to several fuse-protected circuits via insulated touchproof jumpers.



Testing



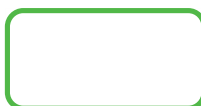
Voltage test, either at input or output with fuse holder in closed position (live).



Through test with fuse holder in open position (no voltage).

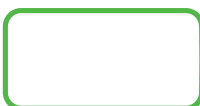


Voltage test at input in the test slot of the current bar.

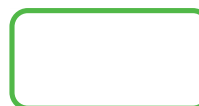


CAGE CLAMP® clamps the following copper conductors:*

solid



stranded



fine-stranded, also with tinned single strands

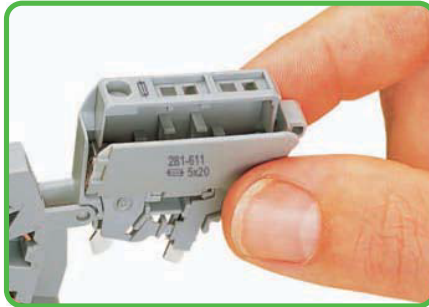
* For aluminum conductors, see notes in Section 14.

- Description and Handling -

Fuse replacement (continued)

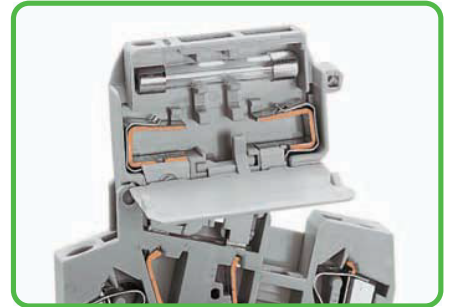


The fuse can be easily removed by hand.

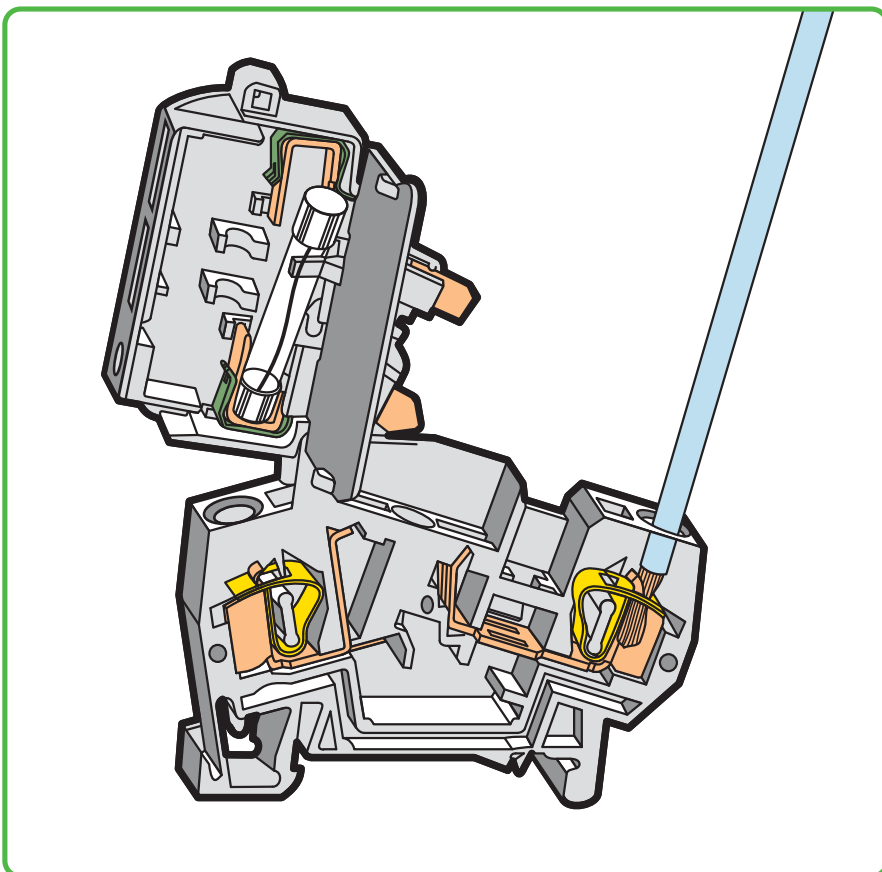


Insert new fuse snap the cover closed.

Spare fuse



Storage of spare fuse (fuse holder without blown fuse indication).



Touchproof protection



"Touchproof" protection in all positions of the fuse holder.

Locked position

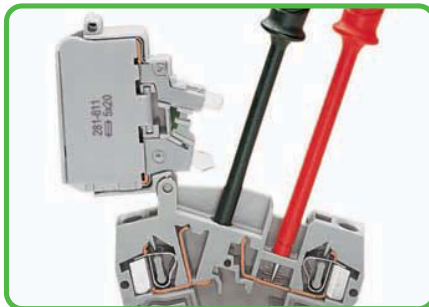


Fuse holder will remain safely locked open in vertical assemblies.

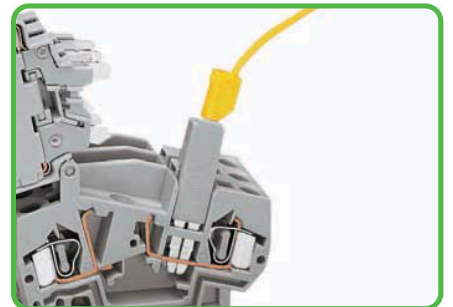
Testing (continued)



Testing voltage at the output via separate test slot.



Current measuring between jumper slot and separate test slot.



Voltage testing at input via 280-404 test plug adapter (shown) or 281-407 test plug.



fine-stranded,
tip-bonded



fine-stranded,
with ferrule ①
(gastight crimped)



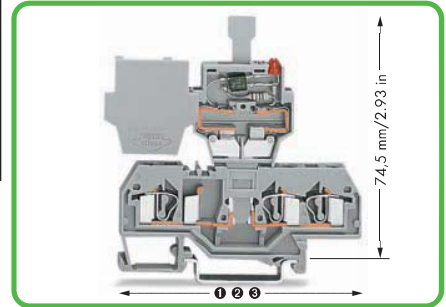
fine-stranded,
with pin terminal
(gastight crimped)

① When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

Fuse Plugs on Carrier Terminal Blocks 4 mm² 281 Series

Fuse plug with pull-tab
for miniature metric fuses 5 x 20 mm and 5 x 25 mm
250 V / I_N 6.3 A ④
Plug width 6 mm / 0.236 in

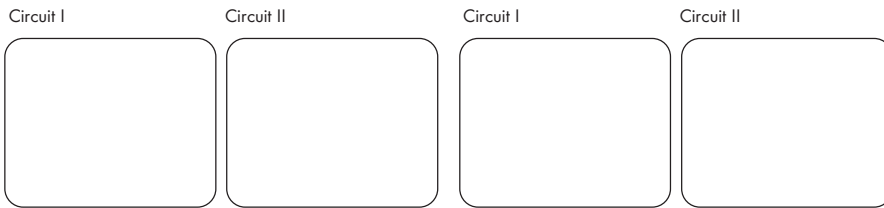
Fuse plug with pull-tab
for miniature metric fuses 5 x 20 mm and 5 x 25 mm
250 V / I_N 6.3 A ④
Plug width 6 mm / 0.236 in



Dimensions of carrier terminal blocks with fuse plug

- ① 59 mm / 2.32 in for 281-916
- ② 73.5 mm / 2.89 in for 281-610
- ③ 86 mm / 3.39 in for 281-656

For terminal blocks with side marking, see www.wagocatalog.com



Accessories

4-conductor carrier terminal block,
③ 0.08 - 4 mm² / AWG 28 - 12,
Terminal block width 6 mm / 0.236 in
gray **281-656** 50

End and intermediate plate, 2.5 mm thick
orange **281-335** 100 (4x25)
gray **281-334** 100 (4x25)

Comb-style jumper bar, insulated,
I_N = I_N terminal block
2-way **281-482** 100 (4x25)
3-way **281-483** 100 (4x25)
5-way **281-485** 100 (4x25)
10-way **281-490** 50 (2x25)

Alternate comb-style jumper bar,
insulated,
I_N = I_N terminal block
2-way **281-492** 100 (4x25)

Operating tool, of insulating material
2-way **280-432** 1
3-way **280-433** 1
5-way **281-440** 1

WSB Quick marking system,
10 strips with 10 markers per card,
WSB Markers 4 mm wide
plain **209-701** 5

WSB Quick marking system, plain,
10 strips with 10 markers per card,
WSB Markers 4 mm wide
yellow **209-701/000-002**
red **209-701/000-005**
blue **209-701/000-006**
gray **209-701/000-007**
orange **209-701/000-012**
light green **209-701/000-017**
green **209-701/000-023**
violet **209-701/000-024**

Shorting link, 5 x 20 mm,
if the fuse plug is used as disconnect plug
I_N 6.3 A **281-503** 250 (10x25)

Item No.	Pack. Unit	Item No.	Pack. Unit
Fuse plug with pull-tab, for miniature metric fuses 5 x 20 mm and 5 x 25 mm, Nominal voltage and current are given by the fuse. 6 mm wide, gray		Fuse plug with pull-tab, for miniature metric fuses 5 x 20 mm and 5 x 25 mm, with LED indicator, 24 V AC/DC, Nominal voltage and current are given by the LED or fuse. Leakage current in case of blown fuse: 5 - 20mA, 6 mm wide, gray	
● Circuit I 281-511	50	● Circuit I 281-512/281-501	50
Fuse plug with pull-tab, for miniature metric fuses 5 x 20 mm and 5 x 25 mm, with hole for one LED (for self-assembly), Nominal voltage and current are given by the LED or fuse. 6 mm wide, gray		Fuse plug with pull-tab, for miniature metric fuses 5 x 20 mm and 5 x 25 mm, with neon lamp 120 V AC/DC, Nominal voltage and current are given by the LED or fuse. Leakage current in case of blown fuse: Neon lamp < 0.4mA, 6 mm wide, gray	
● Circuit II 281-512	50	● Circuit II 281-512/281-418	50
		Fuse plug with pull-tab, for miniature metric fuses 5 x 20 mm and 5 x 25 mm, with neon lamp 230 V AC/DC, Nominal voltage and current are given by the LED or fuse. Leakage current in case of blown fuse: Neon lamp < 0.4mA, 6 mm wide, gray	
		● Circuit II 281-512/281-417	50

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

2-conductor carrier terminal block, ① 0.08 - 4 mm ² / AWG 28 - 12, Terminal block width 6 mm / 0.236 in gray 281-916 50	3-conductor carrier terminal block, ② 0.08 - 4 mm ² / AWG 28 - 12, Terminal block width 6 mm / 0.236 in gray 281-610 50
End and intermediate plate, 2.5 mm thick orange 281-329 100 (4x25) gray 281-328 100 (4x25)	End and intermediate plate, 2.5 mm thick orange 281-326 100 (4x25) gray 281-324 100 (4x25)
Wire commoning chain, 50 connections, insulated, I _N 8 A black 210-103 1	Wire commoning chain, 50 connections, insulated, I _N 8 A blue 210-123 1