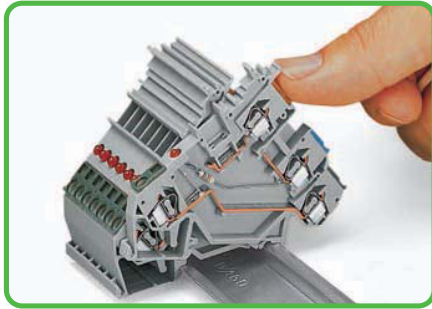


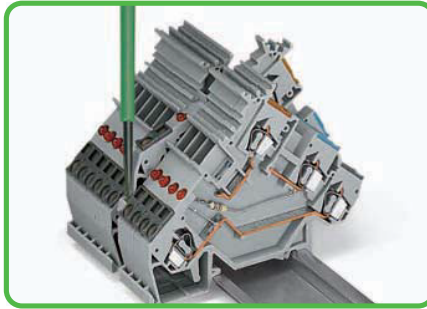
Sensor and Actuator Terminal Blocks 280 Series

Assembly



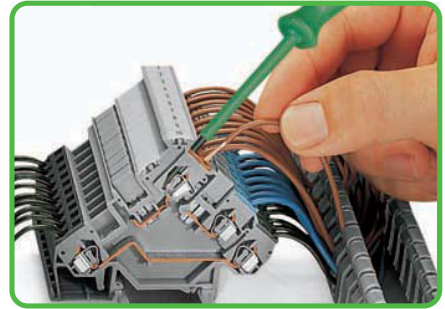
Assembly on the carrier rail. Terminal blocks with ground connection automatically establish a direct contact to the rail.

Removal



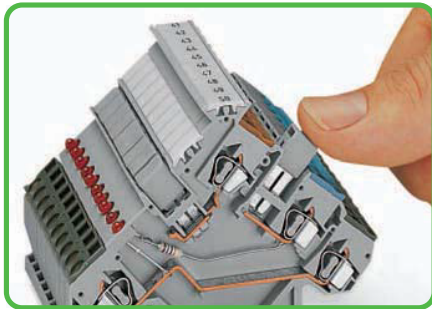
Removal from the carrier rail.
Notice: Remove jumper contacts first.

CAGE CLAMP® connection



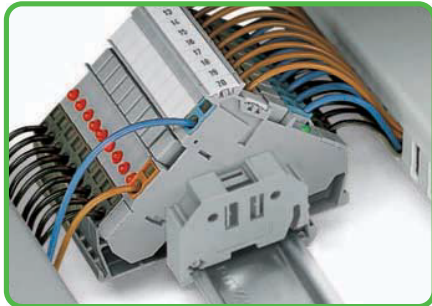
Conductor termination with straight operating tool (210-720).

Commoning

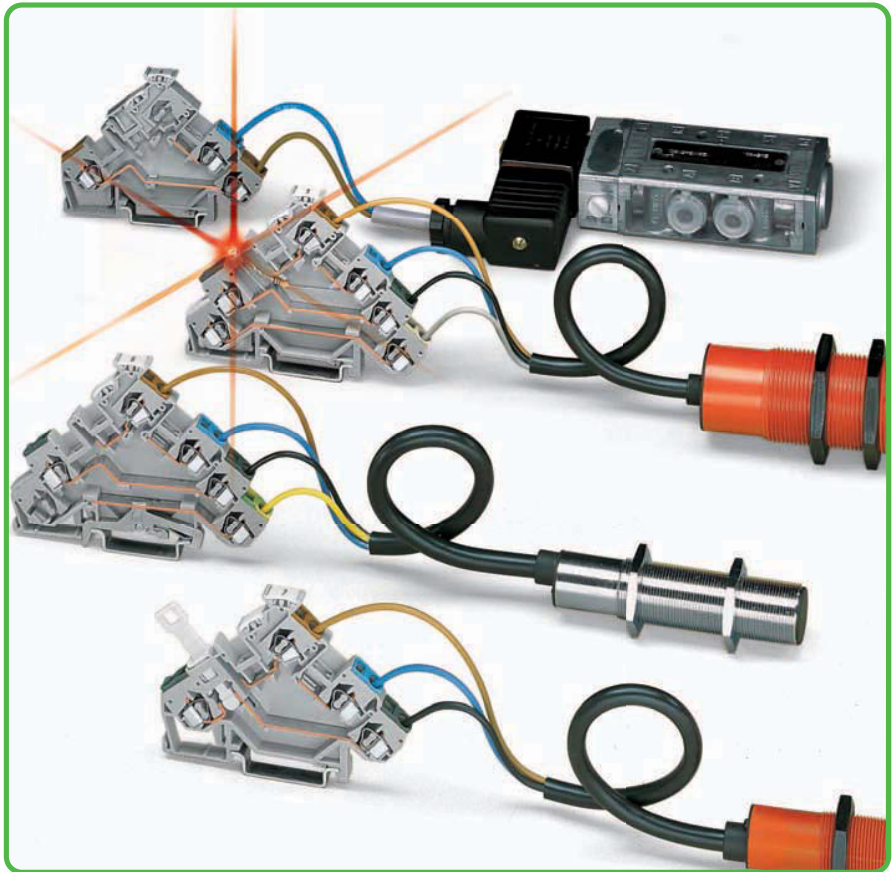


Commoning with adjacent jumpers. Push down the adjacent jumper until fully inserted.

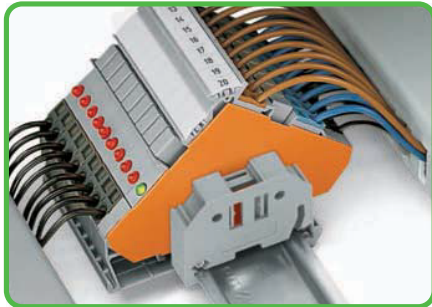
Power supply



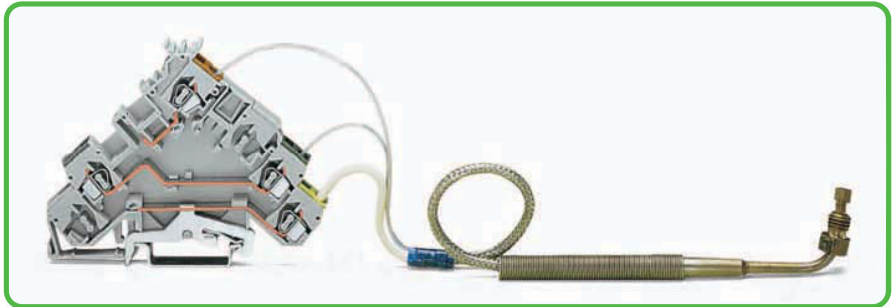
Sensor terminal blocks.
Power supply from control cabinet side.



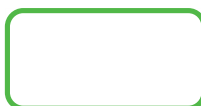
Power supply



Sensor terminal blocks.
Power supply from sensor side.

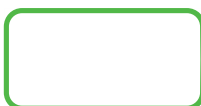


Actuator terminal block and thermocouple with shield contact.

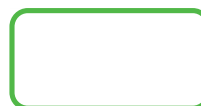


CAGE CLAMP® clamps the following copper conductors:*

solid



stranded

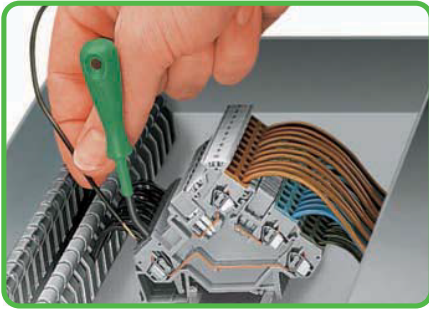


fine-stranded,
also with tinned
single strands

* For aluminum conductors, see notes in Section 14.

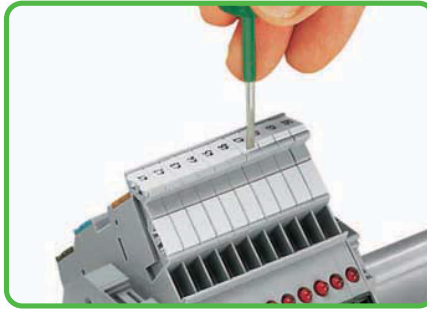
- Description and Handling -

CAGE CLAMP® connection



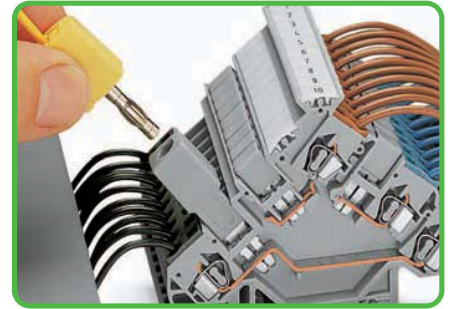
Conductor termination with angled operating tool (210-658).

Marking

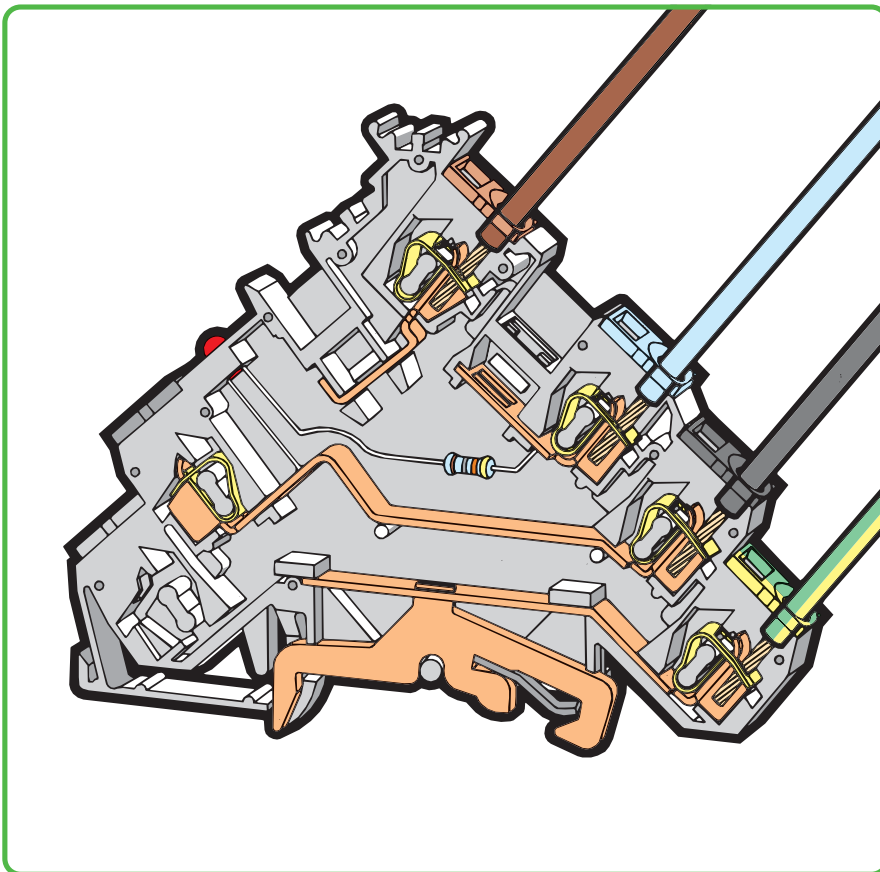


Marking with WMB Multi marking system. For additional systems, see Section 13.

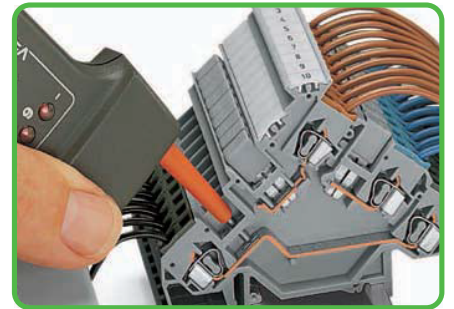
Testing



Testing via banana plug and 209-170 test plug adapter.



Testing



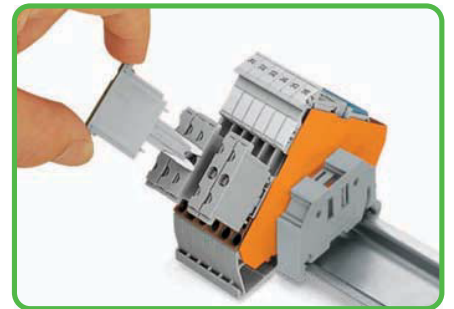
Testing with voltage tester directly on the current bar.

Fuse plugs



Actuator terminal blocks with 281-511 fuse plugs (requires additional intermediate plates).

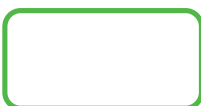
Component plugs



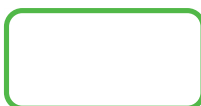
Actuator terminal blocks with component plugs (280-801).



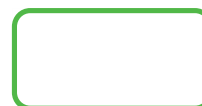
Actuator terminal block with thermocouple.



fine-stranded, tip-bonded



fine-stranded, with ferrule ① (gas-tight crimped)



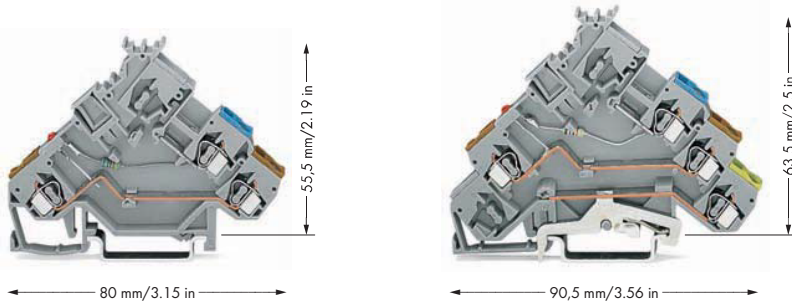
fine-stranded, with pin terminal (gas-tight crimped)

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

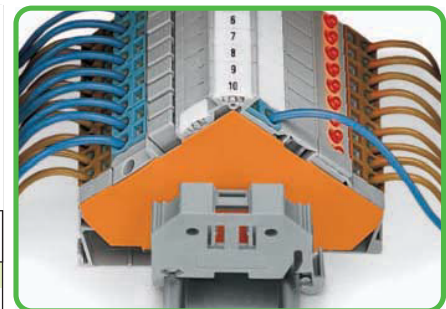
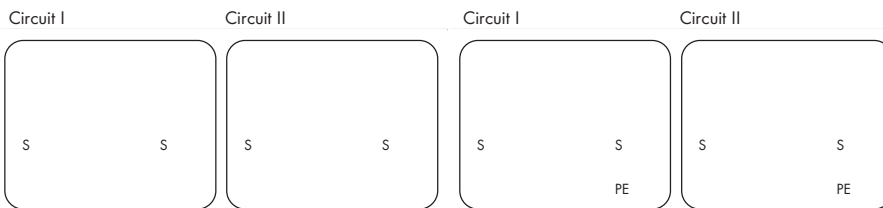
Actuator LED Terminal Blocks with Ground Connection 2.5 mm² 280 Series



0.08 - 2.5 mm ² 24 VDC ① 20 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 24 V, 15 A ③ 300 V, 15 A ③	0.08 - 2.5 mm ² 24 VDC ① 20 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 24 V, 15 A ③ 300 V, 15 A ③
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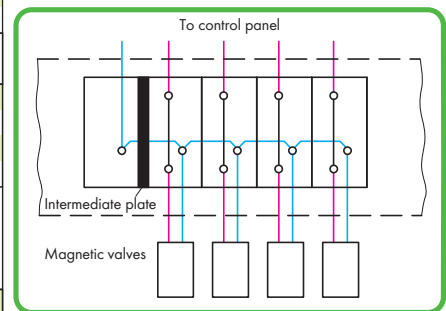


- * AWG 12: THHN, THWN
- ① Other voltages upon request.
- ② Strip length, see packaging or instructions.
- ③ See application notes for: Insulation stop, page 199

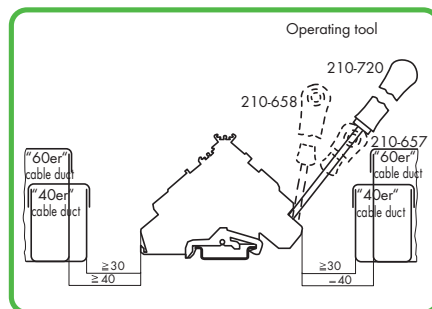
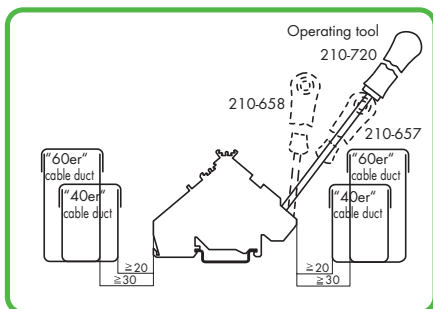


Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator LED terminal block, additional LED, 24 VDC, LED power consumption: 4.8 mA		Actuator LED terminal block with ground connection, additional LED, 24 VDC, LED power consumption: 4.8 mA	
○ Circuit I	280-562/281-434 50	○ Circuit I	280-572/281-434 50
Actuator LED terminal block, with recovery diode 1N4007, red LED, 24 VDC, LED power consumption: 4.8 mA		Actuator LED terminal block with ground connection, with recovery diode 1N4007, additional LED, 24 VDC, LED power consumption: 4.8 mA	
○ Circuit II	280-562/281-420 50	○ Circuit II	280-572/281-420 50

Item-Specific Accessories	Item-Specific Accessories
End and intermediate plate, 1 mm thick, for triple-deck terminal blocks	End and intermediate plate, 1 mm thick, for quadruple-deck terminal blocks
orange 280-321 100 (4x25)	orange 280-323 100 (4x25)
gray 280-319 100 (4x25)	gray 280-320 100 (4x25)



280 Series Accessories		Appropriate marking system: WMB (see Section 13)	
Insulation stop,	Adjacent jumper, insulated,		
③ 5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "fs") white 280-470 200 (8x25)	I _N = I _N terminal block gray 280-402 200 (8x25)		



Min. mounting distance - terminal blocks to cable duct

For list of approvals and user guide, see pages 634 to 637.