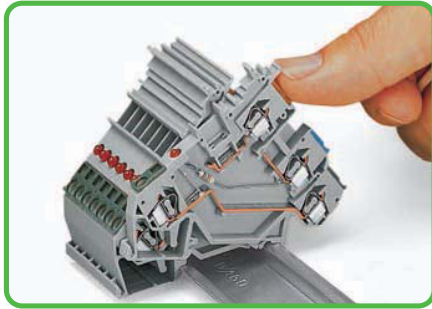


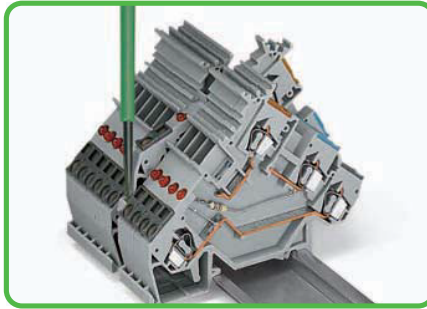
Sensor and Actuator Terminal Blocks 280 Series

Assembly



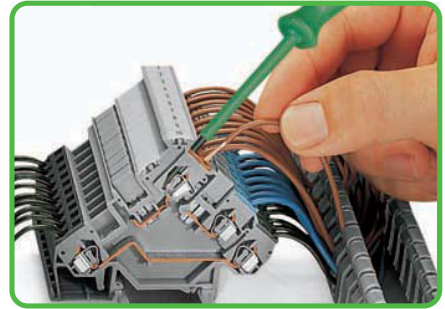
Assembly on the carrier rail. Terminal blocks with ground connection automatically establish a direct contact to the rail.

Removal



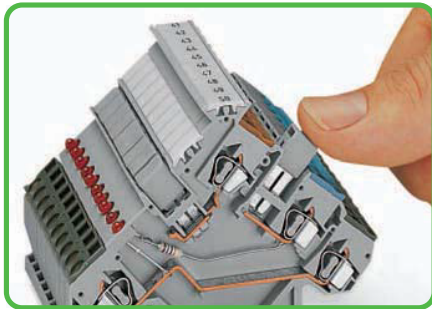
Removal from the carrier rail.
Notice: Remove jumper contacts first.

CAGE CLAMP® connection



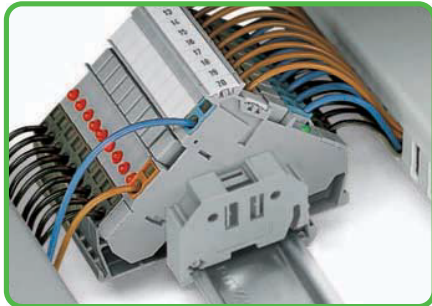
Conductor termination with straight operating tool (210-720).

Commoning

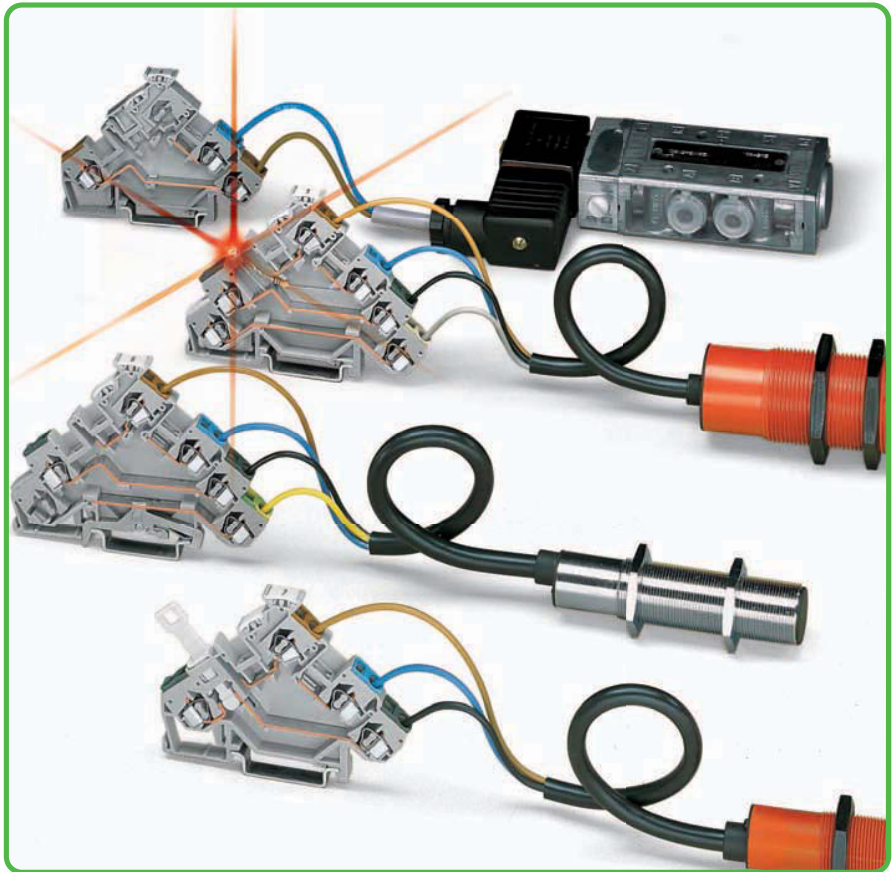


Commoning with adjacent jumpers. Push down the adjacent jumper until fully inserted.

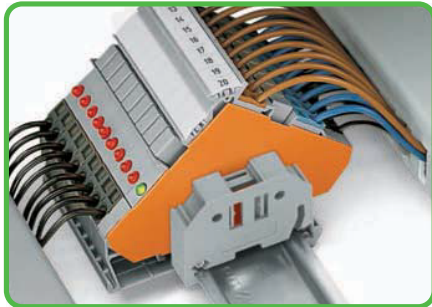
Power supply



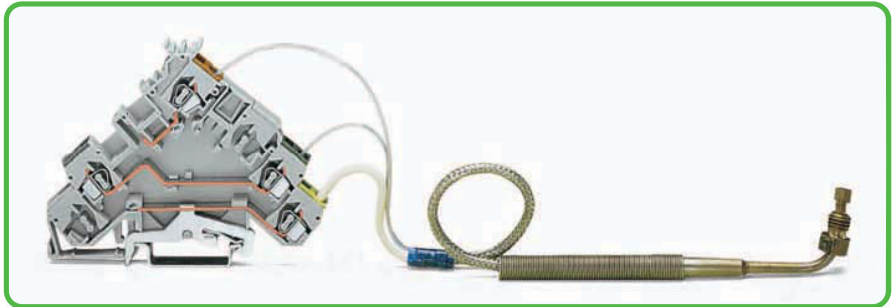
Sensor terminal blocks.
Power supply from control cabinet side.



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

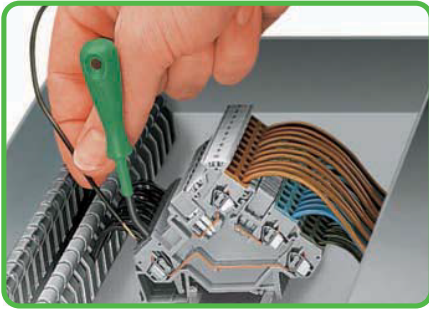


fine-stranded,
also with tinned
single strands

* For aluminum conductors, see notes in Section 14.

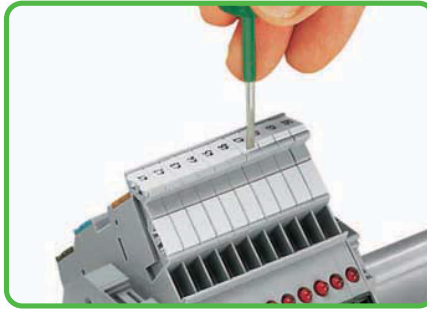
- Description and Handling -

CAGE CLAMP® connection



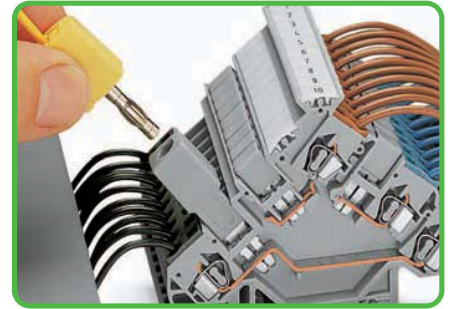
Conductor termination with angled operating tool (210-658).

Marking

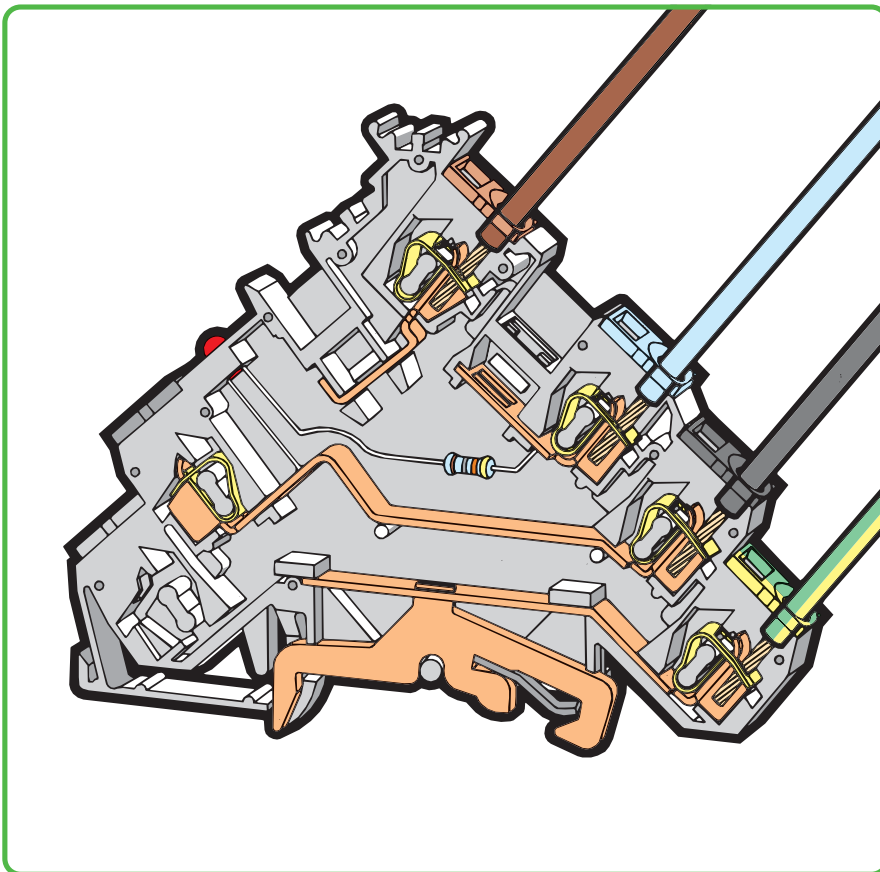


Marking with WMB Multi marking system. For additional systems, see Section 13.

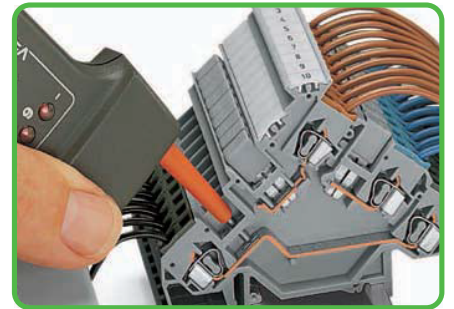
Testing



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



Testing



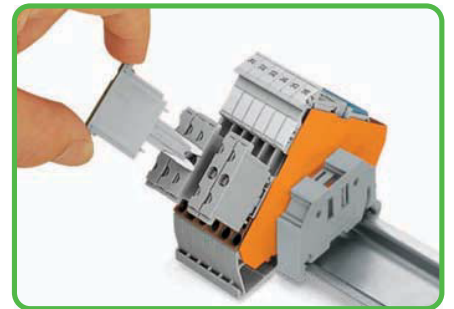
Testing with voltage tester directly on the current bar.

Fuse plugs



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

Component plugs



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



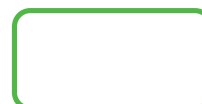
Actuator terminal block with thermocouple.



fine-stranded,
tip-bonded



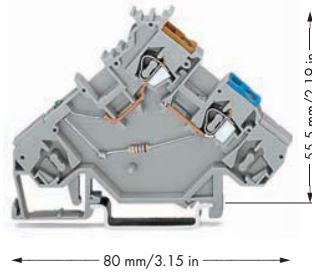
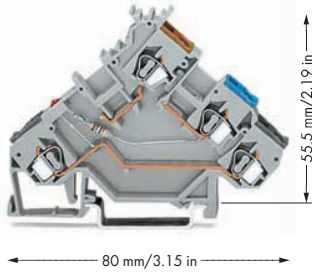
fine-stranded,
with ferrule ❶
(gaslight crimped)



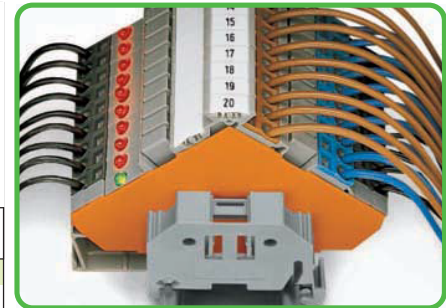
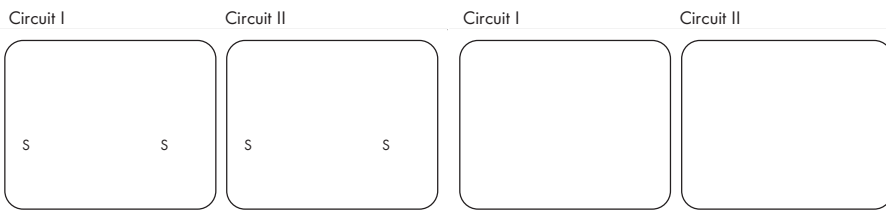
fine-stranded,
with pin terminal
(gaslight crimped)

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

0.08 - 2.5 mm ² 24 VDC ① 20 A	AWG 28 - 12 * 24 V, 15 A ^{VA} 300 V, 15 A [Ⓢ]	0.08 - 2.5 mm ² 24 VDC ① 20 A	AWG 28 - 12 * 24 V, 15 A ^{VA} 300 V, 15 A [Ⓢ]
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②		Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	



- * AWG 12: THHN, THWN
- ① Other voltages upon request.
- ② Strip length, see packaging or instructions.

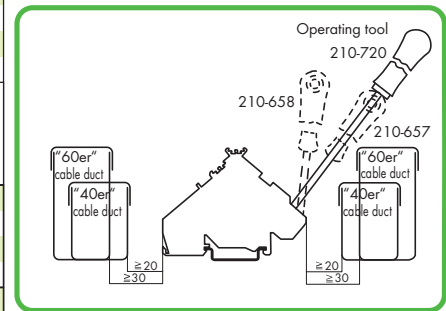


Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor LED terminal block, for PNP (positive) switching sensors, additional LED, 24 VDC, LED power consumption: 4.8 mA		Sensor LED supply terminal block, power supply from sensor side, for PNP (positive) switching sensors, green LED, 24 VDC, LED power consumption: 4.8 mA	
○ Circuit I	280-560/281-434 50	○ Circuit I	280-564/281-483 10
Sensor LED terminal block, for NPN (negative) switching sensors, red LED, 24 VDC, LED power consumption: 4.8 mA		Sensor LED supply terminal block, power supply from sensor side, for NPN (negative) switching sensors, green LED, 24 VDC, LED power consumption: 4.8 mA	
○ Circuit II	280-561/281-413 50	○ Circuit II	280-566/281-496 10

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

End and intermediate plate, 1 mm thick, for triple-deck terminal blocks	Insulation stop, 5 pcs/strip, 0.25 - 0.5 mm ²
orange 280-321 100 (4x25)	light gray 280-471 200 (8x25)
gray 280-319 100 (4x25)	
Insulation stop, 5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "fst")	Insulation stop, 5 pcs/strip, 0.75 - 1 mm ²
white 280-470 200 (8x25)	dark gray 280-472 200 (8x25)



Min. mounting distance - terminal blocks to cable duct



Sensor LED terminal block with 3-conductor sensor

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