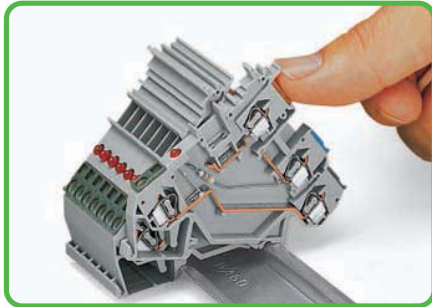


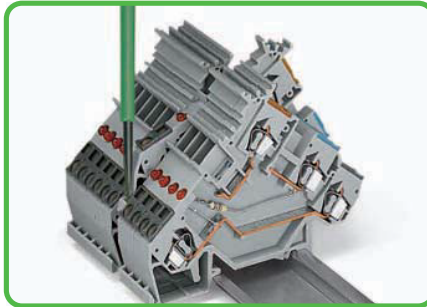
# Sensor and Actuator Terminal Blocks 280 Series

## Assembly



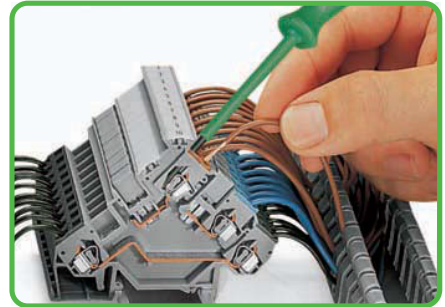
Assembly on the carrier rail. Terminal blocks with ground connection automatically establish a direct contact to the rail.

## Removal



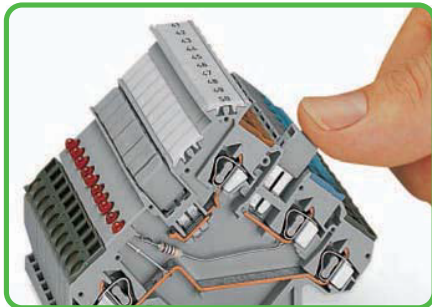
Removal from the carrier rail.  
Notice: Remove jumper contacts first.

## CAGE CLAMP® connection



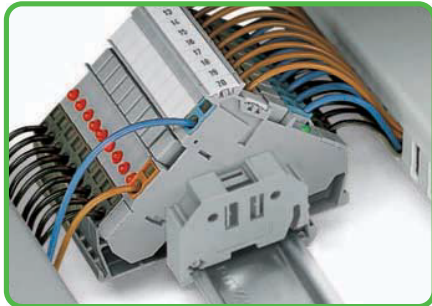
Conductor termination with straight operating tool (210-720).

## Commoning

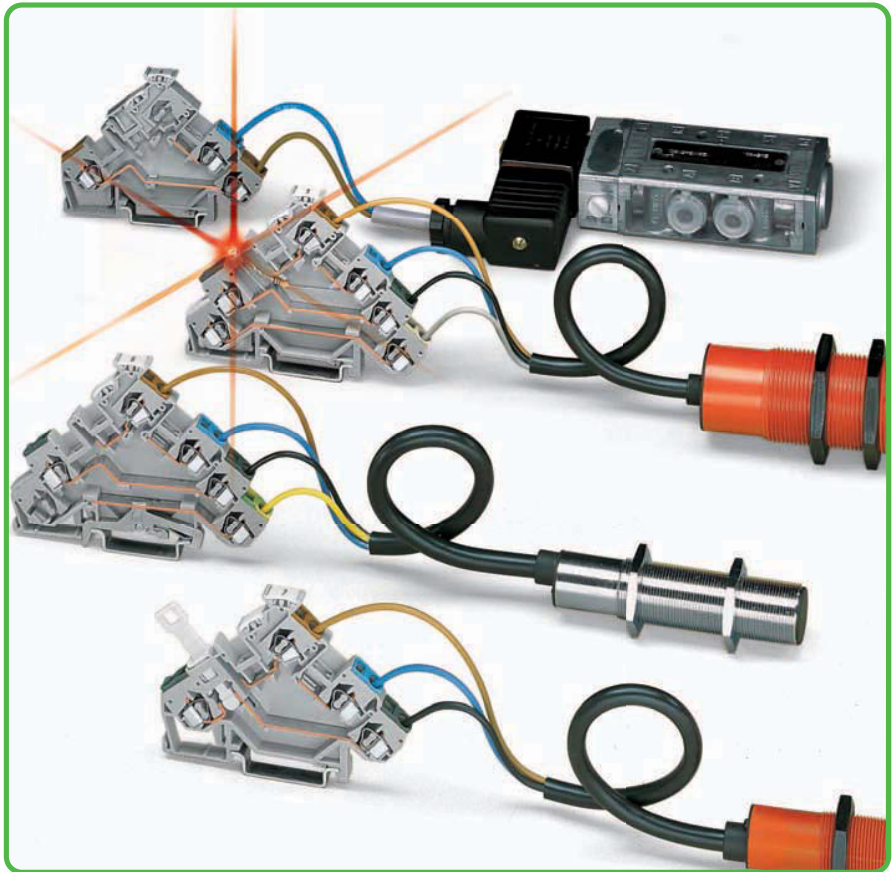


Commoning with adjacent jumpers. Push down the adjacent jumper until fully inserted.

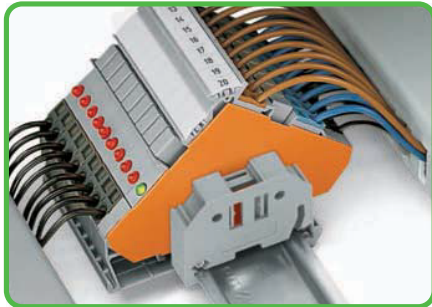
## Power supply



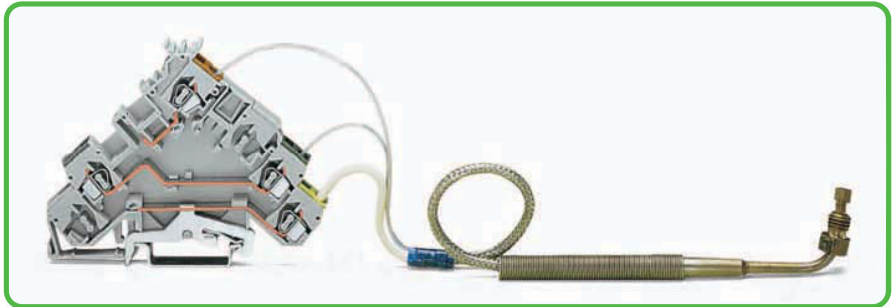
Sensor terminal blocks.  
Power supply from control cabinet side.



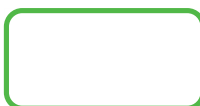
## Power supply



Sensor terminal blocks.  
Power supply from sensor side.

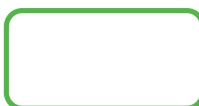


Actuator terminal block and thermocouple with shield contact.

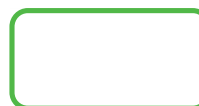


**CAGE CLAMP®**  
clamps the following  
copper conductors:\*

solid



stranded

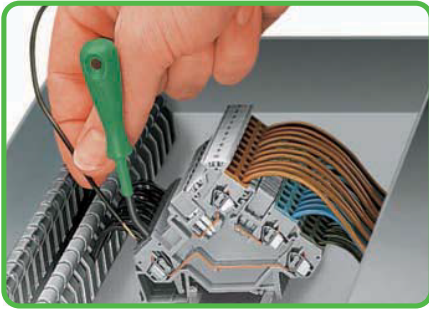


fine-stranded,  
also with tinned  
single strands

\* For aluminum conductors, see notes in Section 14.

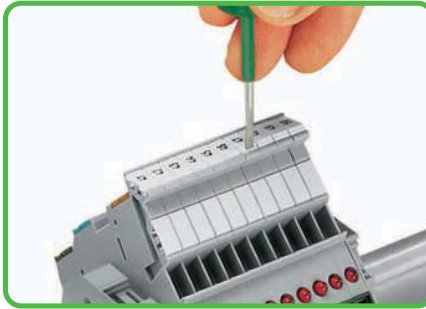
- Description and Handling -

CAGE CLAMP® connection



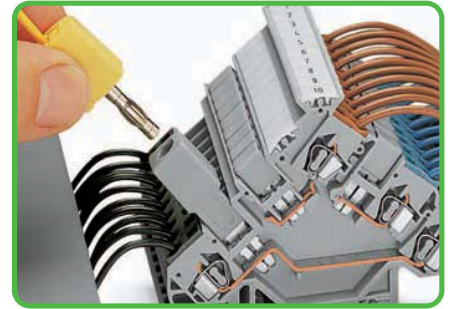
Conductor termination with angled operating tool (210-658).

Marking

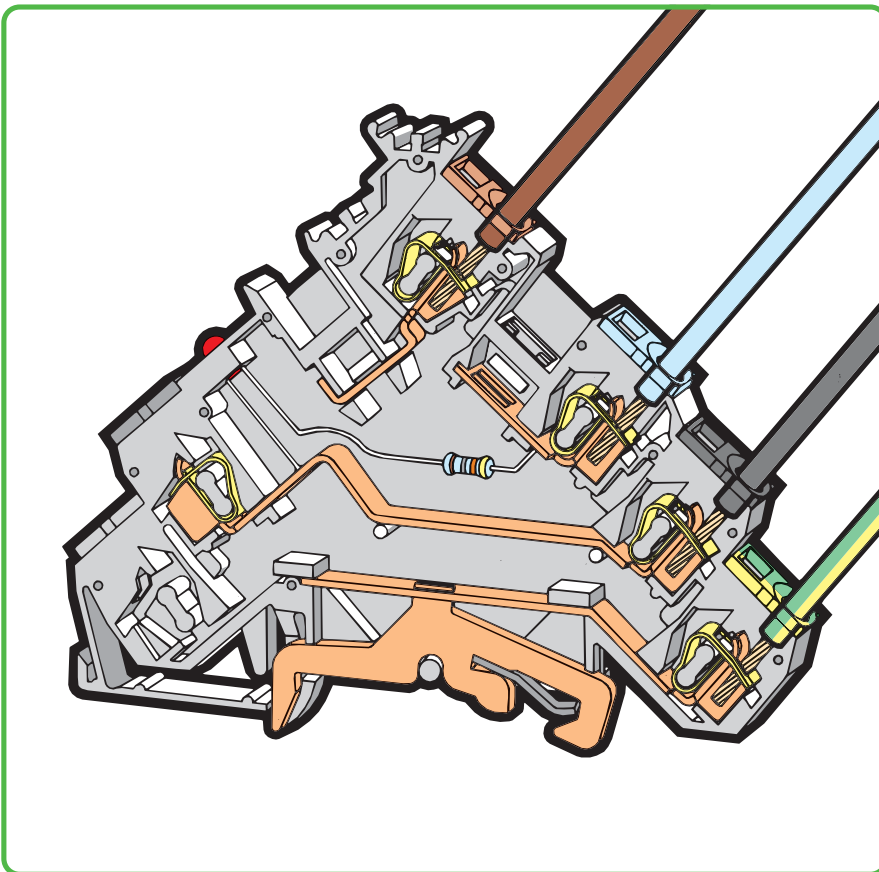


Marking with WMB Multi marking system. For additional systems, see Section 13.

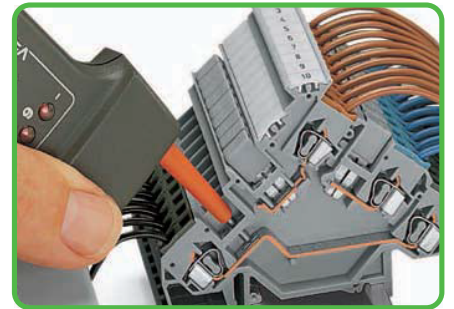
Testing



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



Testing



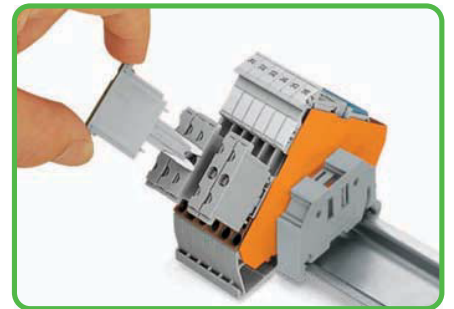
Testing with voltage tester directly on the current bar.

Fuse plugs



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

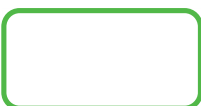
Component plugs



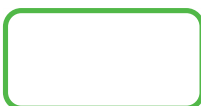
Actuator terminal blocks with component plugs (280-801).



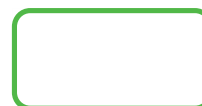
Actuator terminal block with thermocouple.



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 Terminal Blocks 2.5 mm<sup>2</sup> for Magnetic Valves, Servomotors, etc. 280 Series

0.08 - 2.5 mm <sup>2</sup> 400 V/6 kV/3; 20 A ① ② 250 V/4 kV/3; 20 A ① ② Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③	AWG 28 - 12 * 300 V, 15 A ④ 300 V, 15 A ⑤	0.08 - 2.5 mm <sup>2</sup> 125 V/5 A ② 250 V/6.3 A ② Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③	AWG 28 - 12 * 300 V, 6 A ④ 300 V, 15 A ⑤	0.08 - 2.5 mm <sup>2</sup> 400 V/6 kV/3 ① I <sub>N</sub> 10 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③	AWG 28 - 12 * 300 V, 10 A ④ 300 V, 15 A ⑤
------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------	------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------

80 mm/3.15 in

55.5 mm/2.19 in

X

80 mm/3.15 in

55.5 mm/2.19 in

82 mm/3.23 in

85 mm/3.35 in

55.5 mm/2.19 in

Circuit I

Circuit II

Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
<b>Actuator terminal block</b>		<b>Actuator terminal block,</b> for fuse plugs, for fuse protection of line voltage, without end plate		<b>Actuator disconnect terminal block,</b> for interruption of line	
● Circuit I	<b>280-562</b>	50	●	<b>280-565</b> ④	50
<b>Actuator terminal block,</b> with recovery diode 1N4007					
● Circuit II	<b>280-562/281-411</b>	50			

80 mm/3.15 in

55.5 mm/2.19 in

X

80 mm/3.15 in

55.5 mm/2.19 in

80 mm/3.15 in

55.5 mm/2.19 in

Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
<b>Actuator supply terminal block,</b> power supply form actuator side		<b>Actuator terminal block,</b> for fuse plugs, for fuse protection of line voltage, with end plate		<b>Actuator supply terminal block,</b> power supply from control panel side, with end plate	
●	<b>280-592</b>	10	● gray	<b>280-565/280-319</b>	50
			● gray	<b>280-565/280-321</b>	50
				Technical data: 400 V/6 kV/3 I <sub>N</sub> 20 A	

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