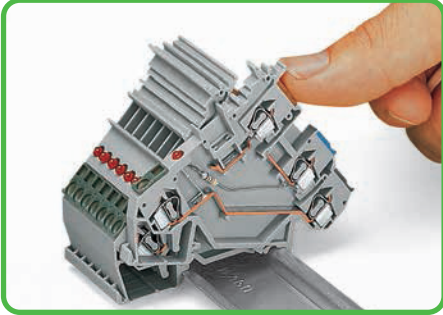


5 Sensor and Actuator Terminal Blocks 280 Series

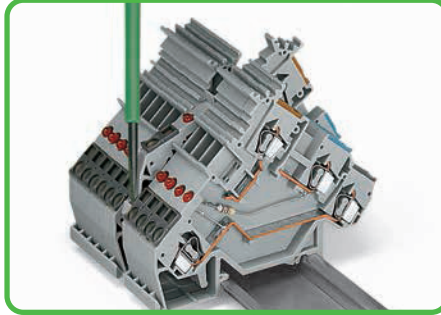
256

Assembly



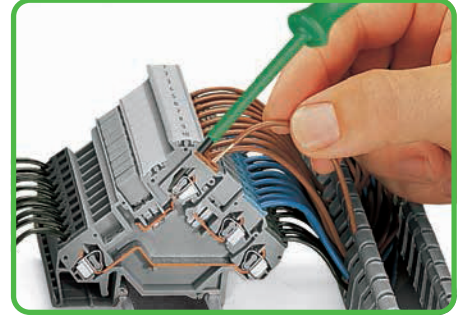
Assembly on the carrier rail. Terminal blocks with ground connection automatically establish a direct contact to the rail.

Removal



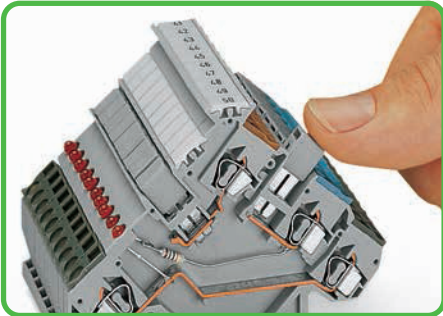
Removal from the carrier rail. Notice: Remove jumper contacts first.

CAGE CLAMP® connection



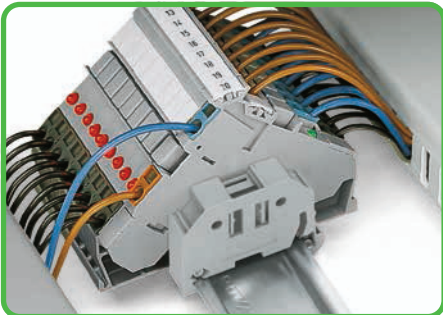
Conductor termination with straight operating tool (210-720).

Commoning

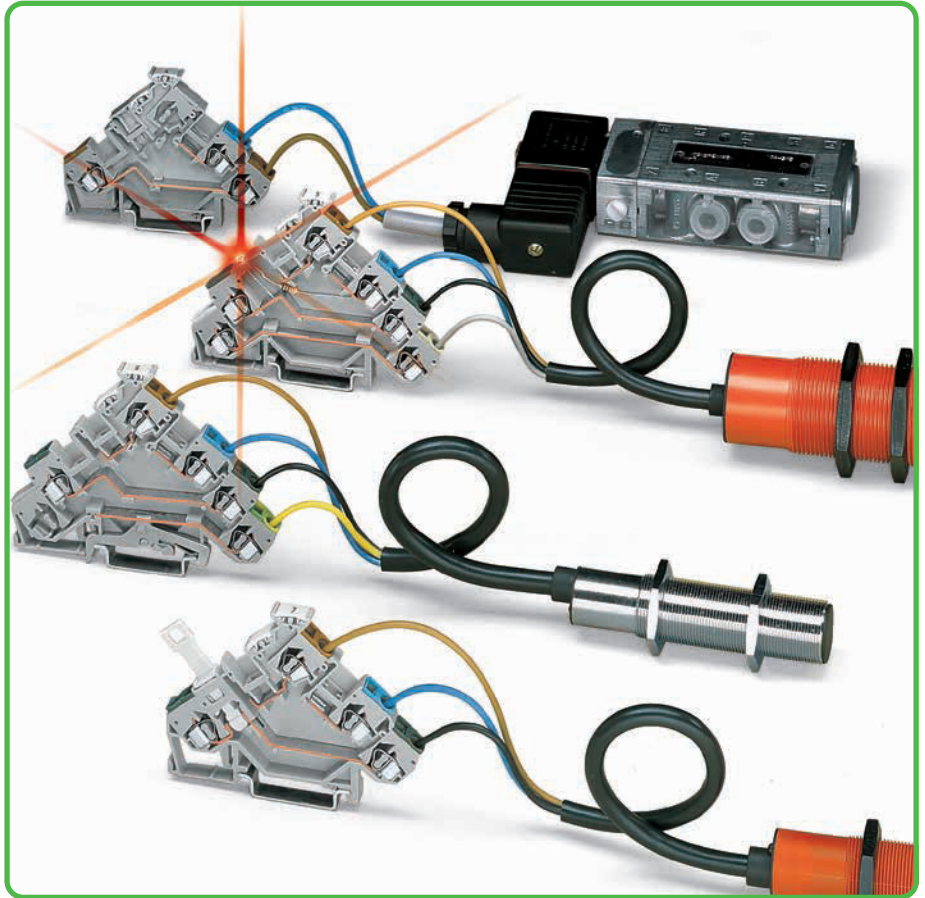


Commoning with adjacent jumpers. Push down the adjacent jumper until fully inserted.

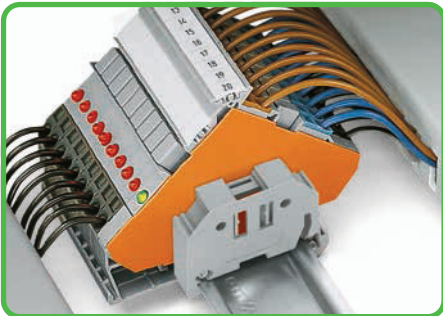
Power supply



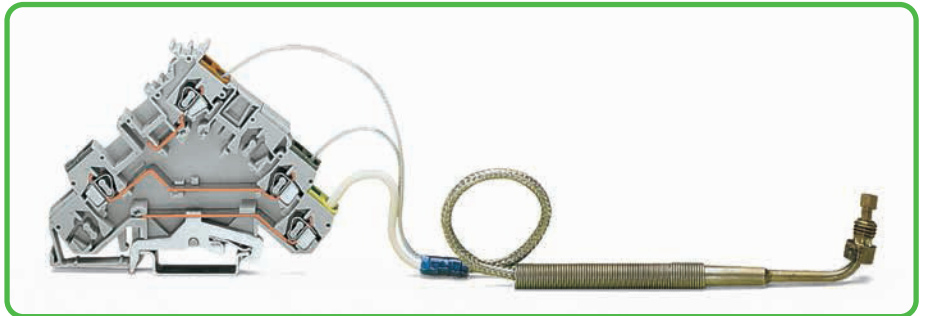
Sensor terminal blocks. Power supply from control cabinet side.



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

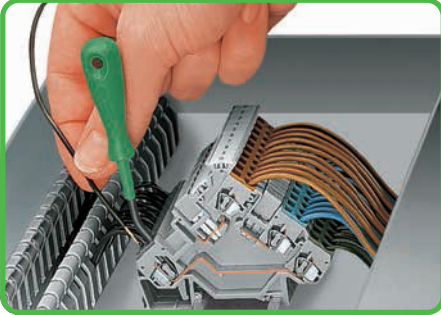


fine-stranded, also with tinned single strands

* For aluminum conductors, see notes in Section 14.

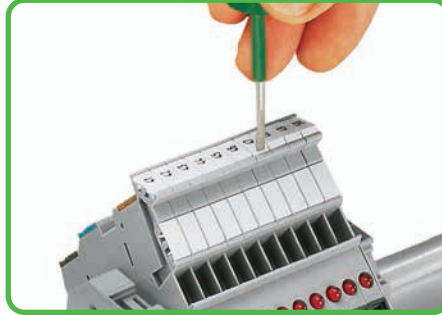
- Description and Handling -

CAGE CLAMP® connection



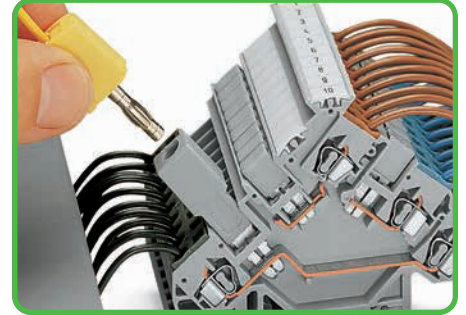
Conductor termination with angled operating tool (210-658).

Marking

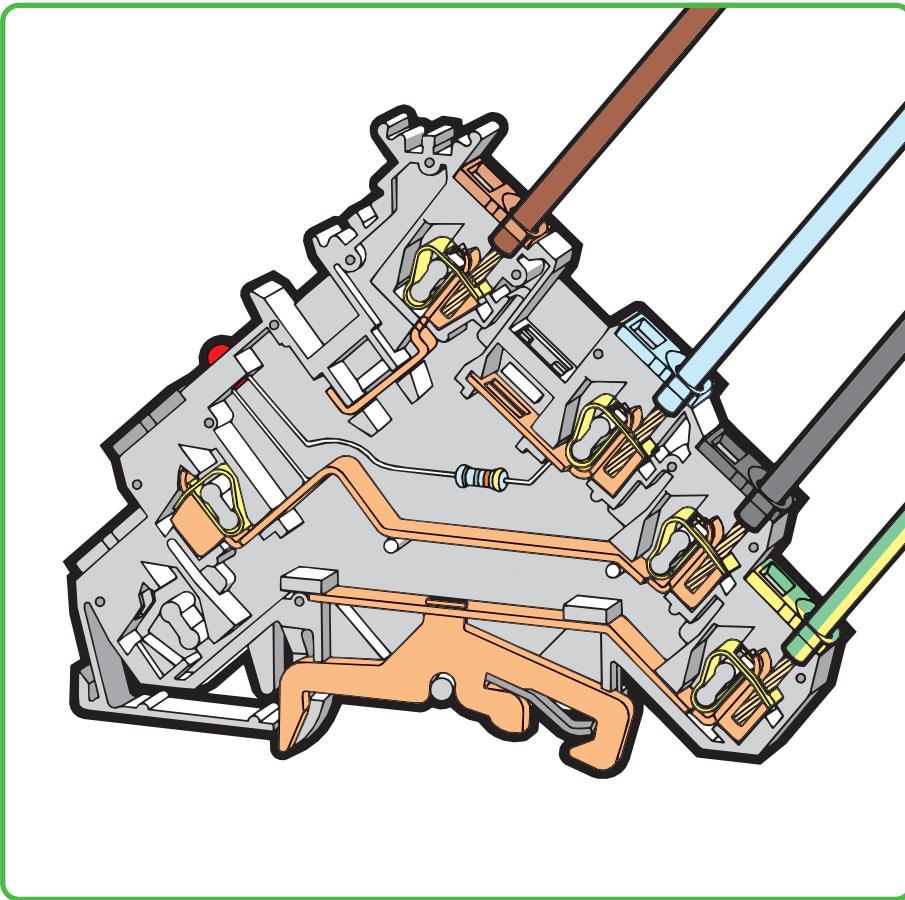


Marking with WMB Multi marking system. For additional systems, see Section 13.

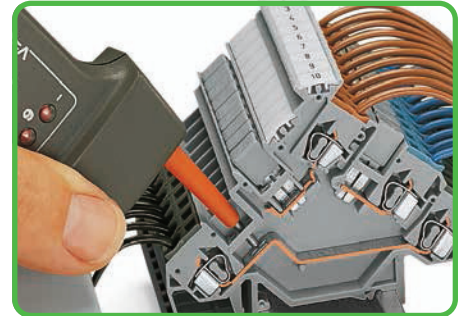
Testing



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

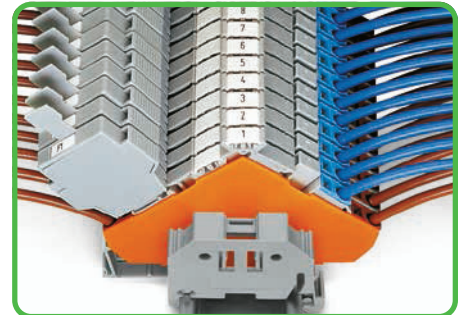


Testing



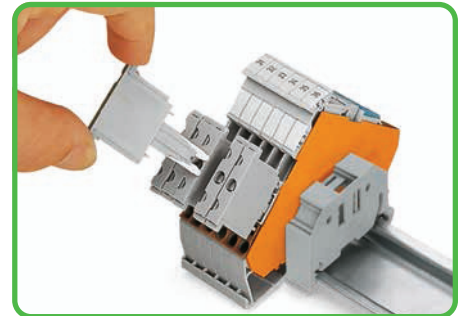
Testing with voltage tester directly on the current bar.

Fuse plugs

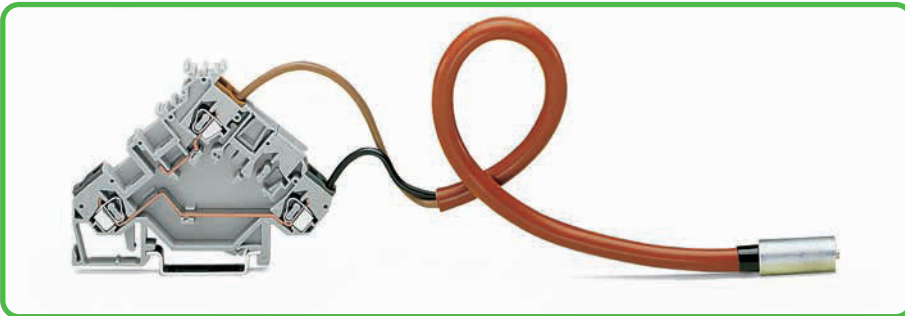


Actuator terminal blocks with 281-511 fuse plugs (requires additional intermediate plates).

Component plugs



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



Actuator terminal block with thermocouple.



fine-stranded, tip-bonded



fine-stranded, with ferrule ❶ (gastight crimped)

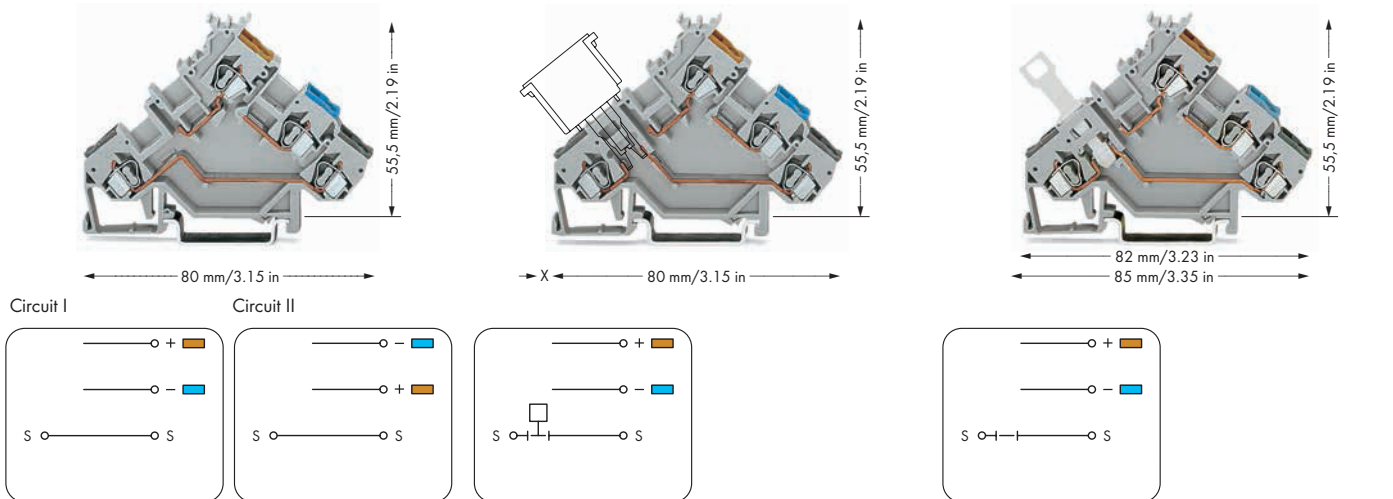


fine-stranded, with pin terminal (gastight crimped)

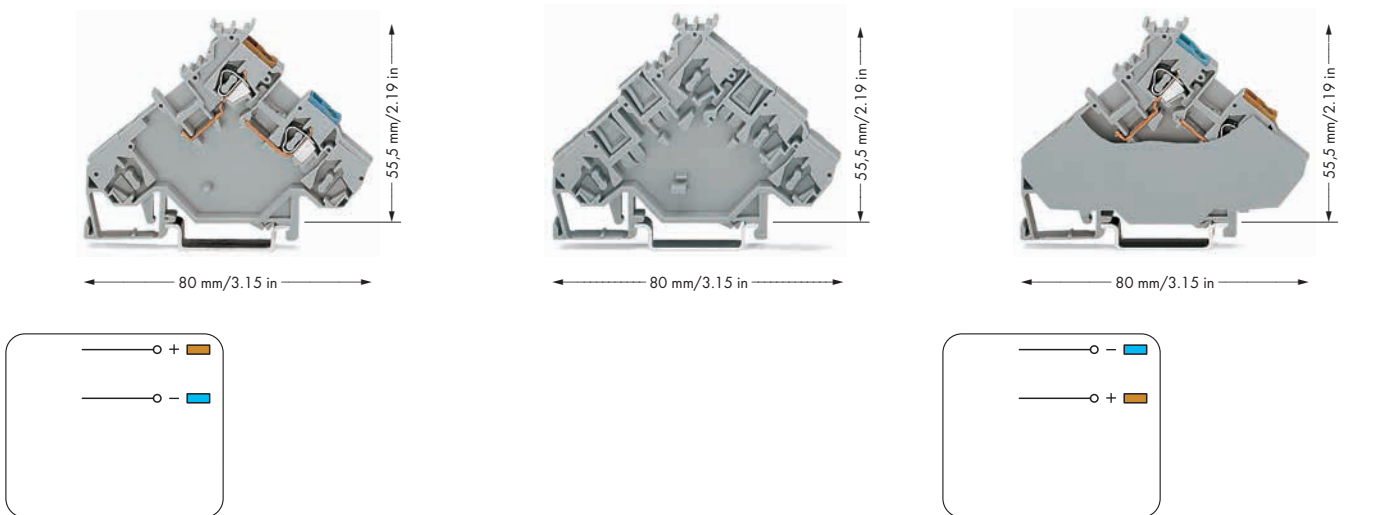
❶ When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

Sensor Terminal Blocks 2.5 mm² for 3-Conductor Sensors 280 Series

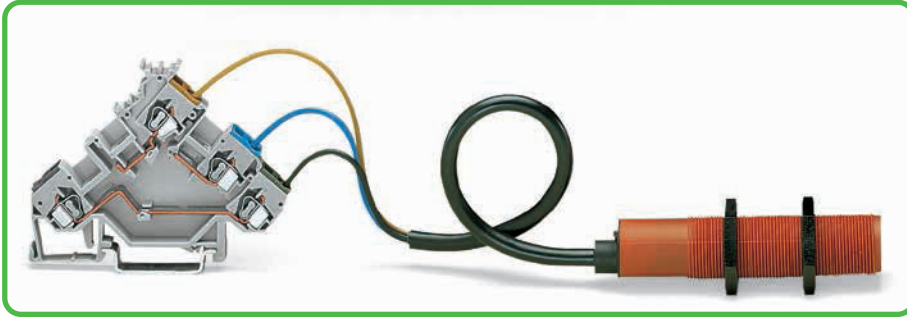
<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 15 A ⑤ 300 V, 15 A ⑥</p>	<p>0.08 - 2.5 mm² 250 V/4 kV/3 ① ② I_N 6 A ②</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 6 A ⑤ 300 V, 15 A ⑥</p>	<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 10 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 10 A ⑤ 300 V, 15 A ⑥</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor terminal block		Sensor terminal block, for component plugs		Sensor disconnect terminal block, for signal interruption	
○ Circuit I	280-560	○	280-561 ④	○	280-563
○ Circuit II	280-553				



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor supply terminal block, power supply from sensor side		Spacer, same profile as 3-conductor sensor terminal blocks or appropriate actuator terminal blocks Spacers with the profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.		Sensor supply terminal block, power supply from control panel side, with end plate	
○	280-564	○ gray	280-559	○	280-567
				Technical data: 400 V/6 kV/3 I _N 20 A	



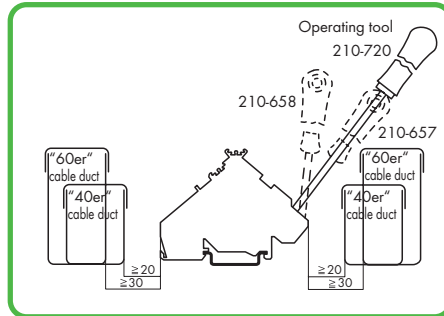
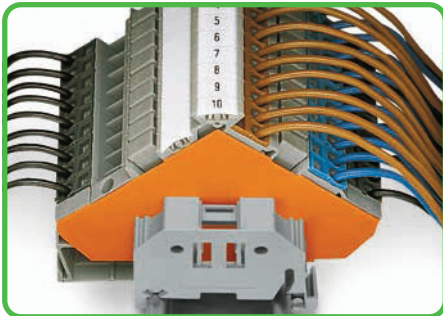
Sensor terminal block with 3-conductor sensor

* AWG 12: THHN, THWN

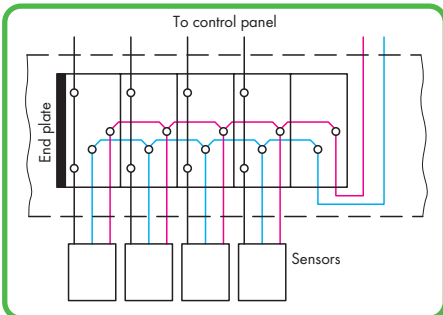
- ① 400 V/250 V = rated voltage
6 kV/4 kV = rated surge voltage
3 = pollution degree

(also see Section 14)

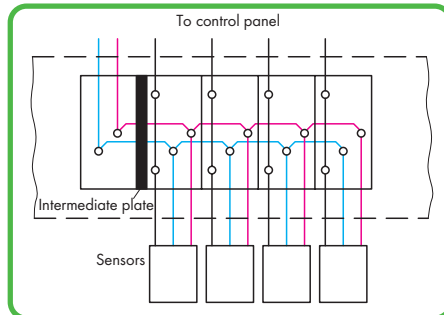
- ② Electrical ratings are given by the fuse plug or empty component plug housing.
- ③ Strip length, see packaging or instructions.
- ④ For empty component plug housings, see interface modules
x = 12 mm/0.472 in
For fuse plugs, see page 250
x = 20 mm/0.787 in
- ⑤ See application notes for:
Insulation stop, page 293



Min. mounting distance - terminal blocks to cable duct











Power supply from sensor side

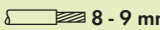
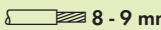


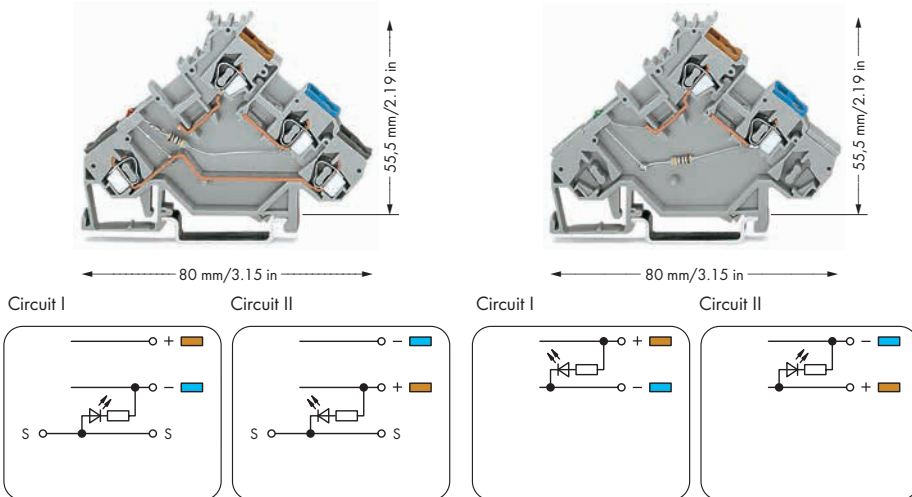
Power supply from control panel side

280 Series Accessories

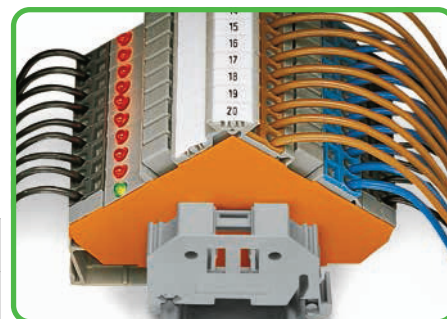
Appropriate marking system:
WMB (see Section 13)

End and intermediate plate, 1 mm thick, for triple-deck terminal blocks			
	orange	280-321	100 (4x25)
	gray	280-319	100 (4x25)
Insulation stop,			
⑤ 	5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st")	white	280-470 200 (8x25)
Insulation stop,			
⑤ 	5 pcs/strip, 0.25 - 0.5 mm ²	light gray	280-471 200 (8x25)
Insulation stop,			
⑤ 	5 pcs/strip, 0.75 - 1 mm ²	dark gray	280-472 200 (8x25)
Adjacent jumper, insulated,			
	I _N = I _N terminal block	gray	280-402 200 (8x25)
Screwless end stop, for DIN 35 rail, 6 mm wide			
	gray	249-116	100 (4x25)
Screwless end stop, for DIN 35 rail, 10 mm wide			
	gray	249-117	50 (2x25)

0.08 - 2.5 mm² 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 300 V, 15 A	0.08 - 2.5 mm² 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 300 V, 15 A
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



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

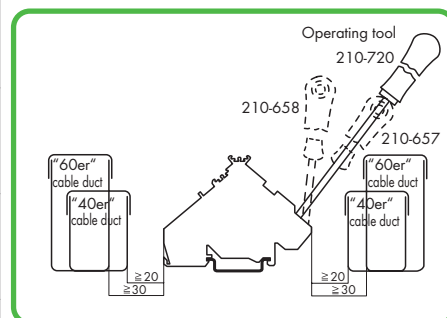


Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor LED terminal block, for PNP (positive) switching sensors, additional LED, 24 VDC, LED power consumption: 4.8 mA		Sensor LED supply terminal block, power supply from sensor side, for PNP (positive) switching sensors, green LED, 24 VDC, LED power consumption: 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

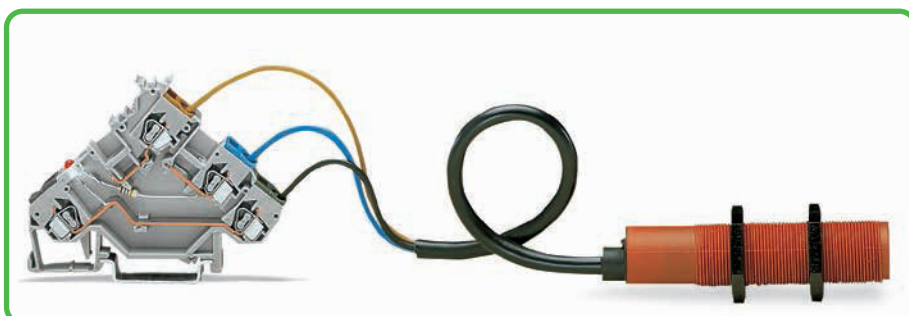
280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

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



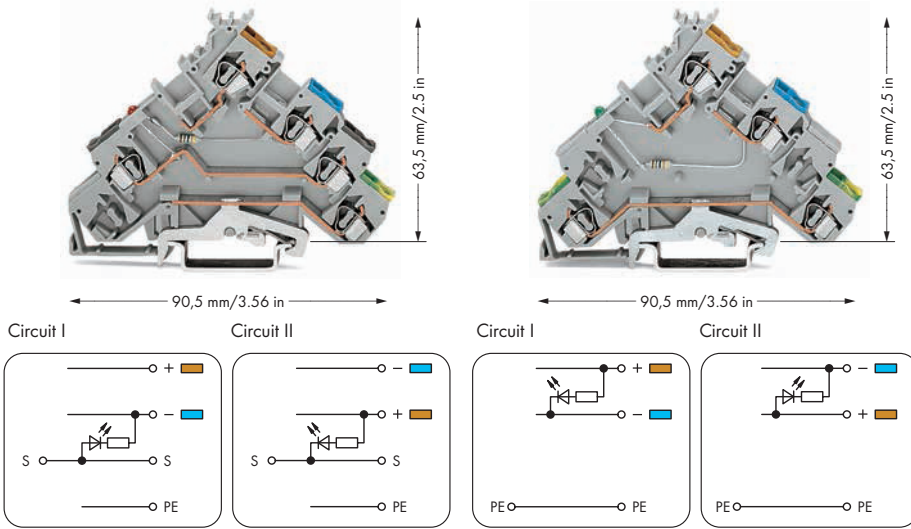
Min. mounting distance - terminal blocks to cable duct



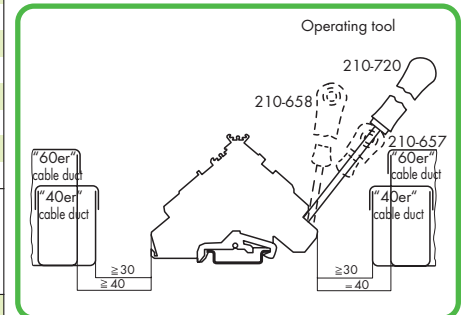
Sensor LED terminal block with 3-conductor sensor

Sensor LED Terminal Blocks 2.5 mm² for 4-Conductor Sensors 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 300 V, 15 A	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 300 V, 15 A
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- * AWG 12: THHN, THWN
- ① Other voltages upon request.
- ② Strip length, see packaging or instructions.





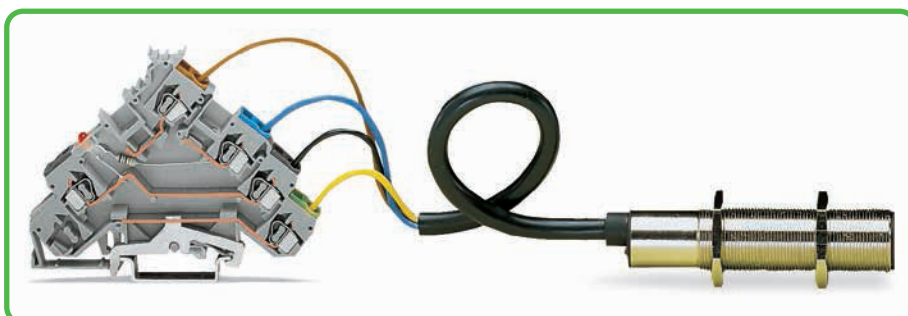
Min. mounting distance - terminal blocks to cable duct

Item No.	Pack. Unit	Item No.	Pack. Unit		
Sensor LED terminal block, for PNP (positive) switching sensors, red 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	280-570/281-434	50	○ Circuit I	280-574/281-483	10
Sensor LED terminal block, for NPN (negative) switching sensors, additional 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	280-571/281-413	50	○ Circuit II	280-576/281-496	10
		Sensor LED supply terminal block, power supply from control panel side, for PNP (positive) switching sensors, green LED, 24 VDC, LED power consumption: 4.8 mA, with end plate			
		○ Circuit II	280-577/281-496	20	

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

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



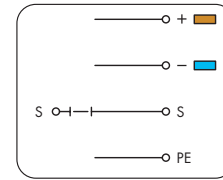
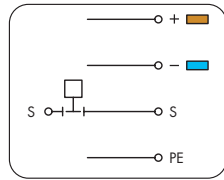
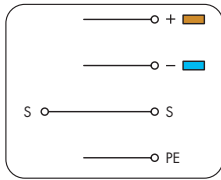
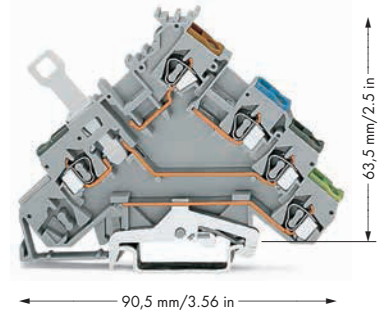
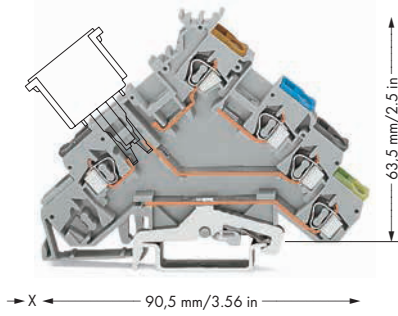
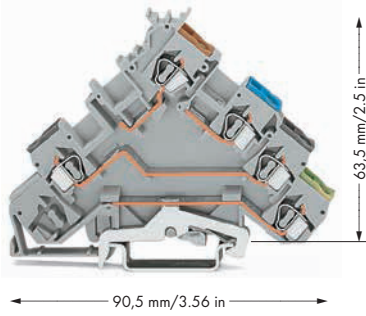
Sensor LED terminal block, with 3-conductor sensor with ground connection

Certification organizations can be found in the overview on pages 622 and 623.

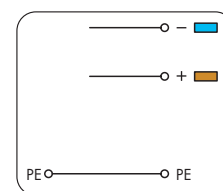
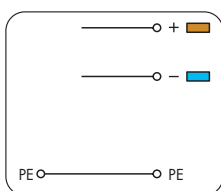
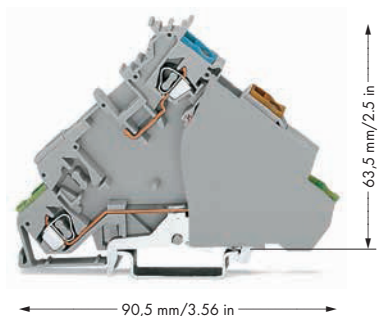
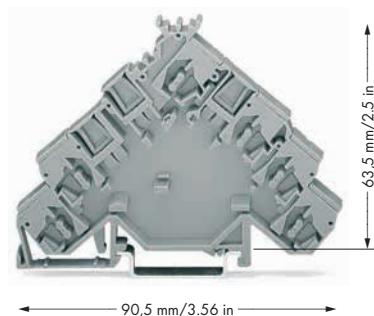
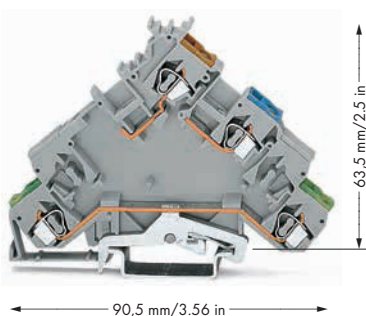
Sensor Terminal Blocks 2.5 mm² for 3-Conductor Sensors with Ground Connection

280 Series

<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 15 A ② 300 V, 15 A ③</p>	<p>0.08 - 2.5 mm² 250 V/4 kV/3 ① ② I_N 6 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 6 A ② 300 V, 15 A ③</p>	<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 10 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 10 A ② 300 V, 15 A ③</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor terminal block with ground connection		Sensor terminal block with ground connection, for component plugs		Sensor disconnect terminal block with ground connection, for signal interruption	
●	280-570	50	●	280-571 ④	50
●			●	280-573	50



Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor supply terminal block with ground connection, power supply from sensor side		Spacer, same profile as 4-conductor sensor terminal blocks, 3-conductor sensor terminal blocks with ground connection or appropriate actuator terminal blocks. Spacers with the profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.		Sensor supply terminal block with ground connection, power supply from control panel side, with end plate	
●	280-574	10	●	280-582	50
●			●	280-577	20
				Technical data: 400 V/6 kV/3 I _N 20 A	

Certification organizations can be found in the overview on pages 622 and 623.



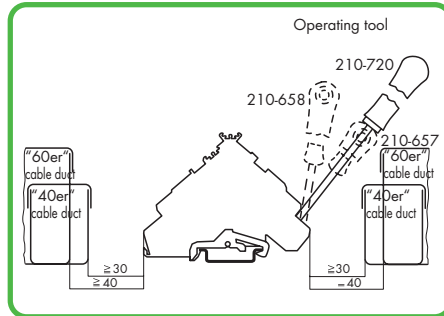
Sensor terminal block, with 3-conductor sensor with ground connection

* AWG 12: THHN, THWN

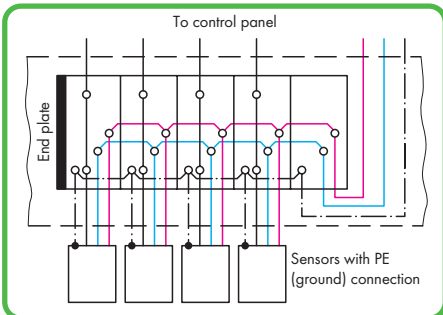
- ① 400 V/250 V = rated voltage
6 kV/4 kV = rated surge voltage
3 = pollution degree

(also see Section 14)

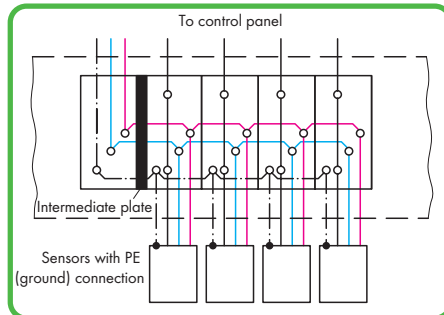
- ② Electrical ratings are given by the fuse plug or empty component plug housing.
- ③ Strip length, see packaging or instructions.
- ④ For empty component plug housings, see interface modules
x = 12 mm/0.472 in
For fuse plugs, see page 250
x = 20 mm/0.787 in
- ⑤ See application notes for:
Insulation stop, page 293



Min. mounting distance - terminal blocks to cable duct











Power supply from sensor side



Power supply from control panel side

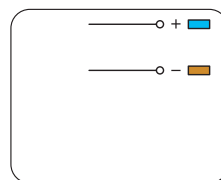
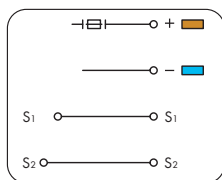
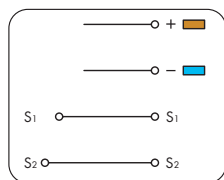
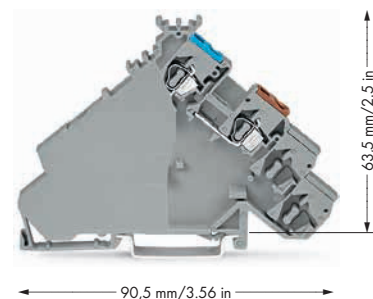
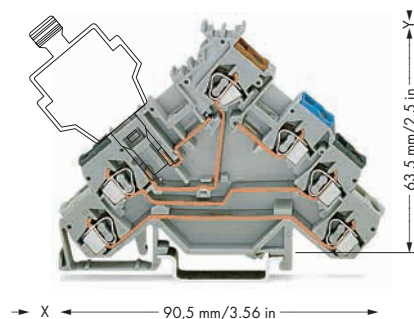
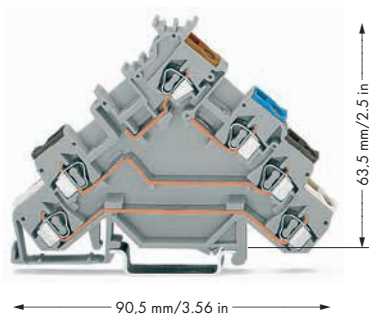
280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

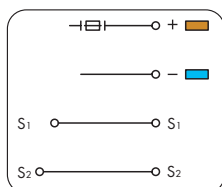
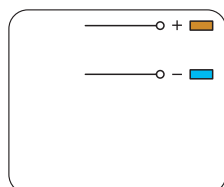
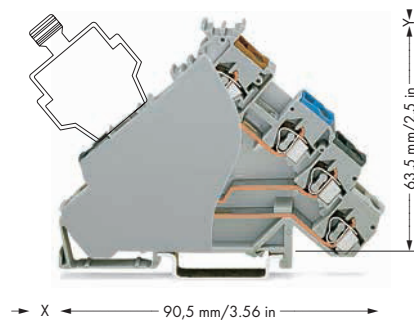
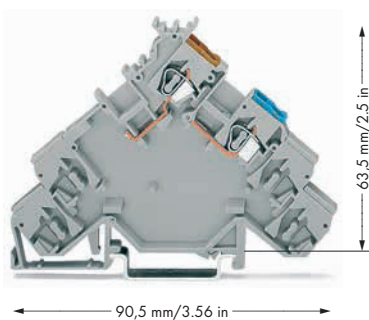
End and intermediate plate, 1 mm thick, for quadruple-deck terminal blocks			
	orange	280-323	100 (4x25)
	gray	280-320	100 (4x25)
Insulation stop,			
⑤ 	5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st")	white	280-470 200 (8x25)
Insulation stop,			
⑤ 	5 pcs/strip, 0.25 - 0.5 mm ²	light gray	280-471 200 (8x25)
Insulation stop,			
⑤ 	5 pcs/strip, 0.75 - 1 mm ²	dark gray	280-472 200 (8x25)
Adjacent jumper, insulated,			
	I _N = I _N terminal block	gray	280-402 200 (8x25)
Screwless end stop, for DIN 35 rail, 6 mm wide			
	gray	249-116	100 (4x25)
Screwless end stop, for DIN 35 rail, 10 mm wide			
	gray	249-117	50 (2x25)

Sensor Terminal Blocks 2.5 mm² for 4-Conductor Sensors 280 Series

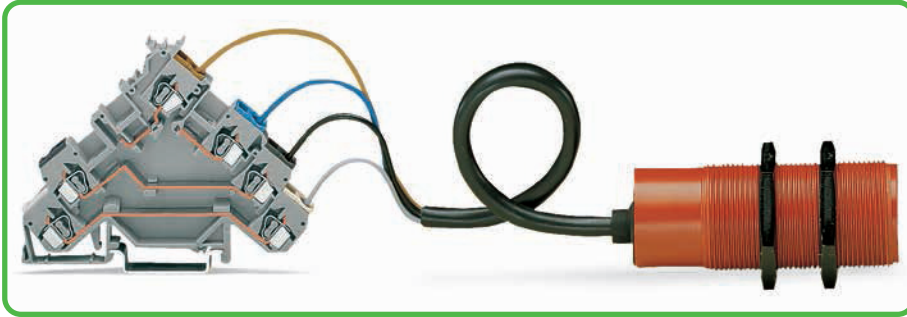
<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 20 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 15 A ② 300 V, 15 A ③</p>	<p>0.08 - 2.5 mm² 125 V/5 A ② 250 V/6.3 A ②</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 6 A ② 300 V, 15 A ③</p>	<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 20 A</p> <p>Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 24 V, 15 A ② 300 V, 15 A ③</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor terminal block		Sensor terminal block,		Sensor supply terminal block,	
		for fuse plugs,		power supply from control panel side,	
		for PNP (positive) switching sensors without end plate		with end plate	
● 280-580	50	● 280-588 ④	50	● 280-587	20



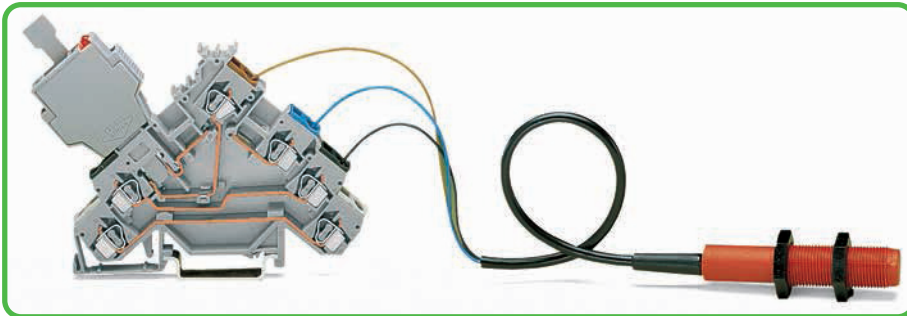
Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor supply terminal block,		Sensor terminal block, for fuse plugs,	
power supply from sensor side,		for PNP (positive) switching sensors	
without end plate		with gray end plate	
● 280-584	10	● 280-588/280-320	50
		with orange end plate	
		● 280-588/280-323	50



Sensor terminal block with 4-conductor sensor

* AWG 12: THHN, THWN








- ① 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
- ② Electrical ratings are given by the fuse plug or empty component plug housing.
- ③ Strip length, see packaging or instructions.
- ④ For empty component plug housings, see interface modules
x = 12 mm/0.472 in
For fuse plugs, see page 248
x = 15.5 mm/0.61 in
y = 10 mm/0.394 in
- ⑤ See application notes for:
Insulation stop, page 293

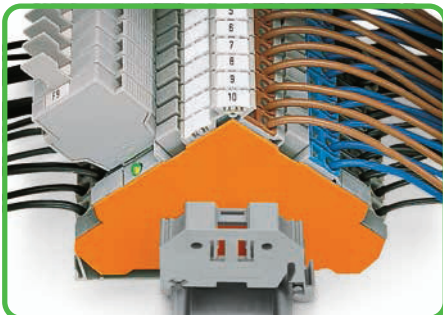


Sensor terminal block with fuse plug, including 3-conductor sensor

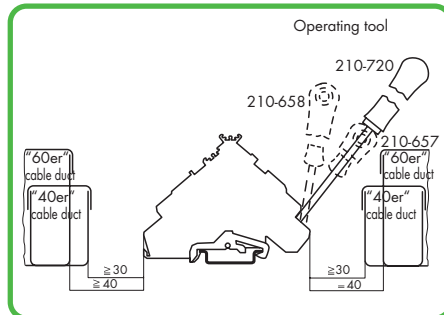
280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

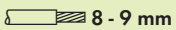
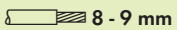
End and intermediate plate, 1 mm thick,			
for quadruple-deck terminal blocks			
	orange	280-323	100 (4x25)
	gray	280-320	100 (4x25)
Insulation stop,			
⑤		5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st")	white 280-470 200 (8x25)
Insulation stop,			
⑤		5 pcs/strip, 0.25 - 0.5 mm ²	light gray 280-471 200 (8x25)
Insulation stop,			
⑤		5 pcs/strip, 0.75 - 1 mm ²	dark gray 280-472 200 (8x25)
Adjacent jumper, insulated,			
		I _N = I _N terminal block	gray 280-402 200 (8x25)
Screwless end stop,			
for DIN 35 rail, 6 mm wide			
		gray	249-116 100 (4x25)
Screwless end stop,			
for DIN 35 rail, 10 mm wide			
		gray	249-117 50 (2x25)

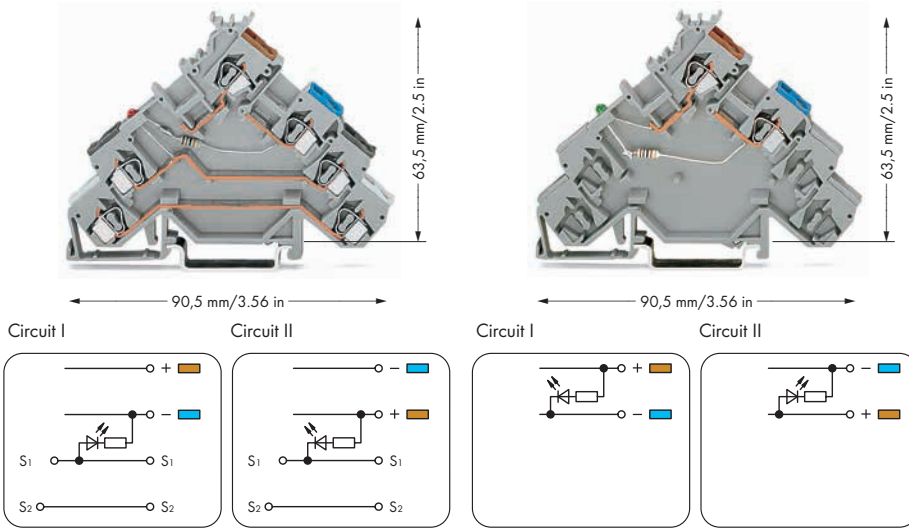


The fuse plug is 1 mm wider than the terminal block. This means an intermediate plate has to be fitted.



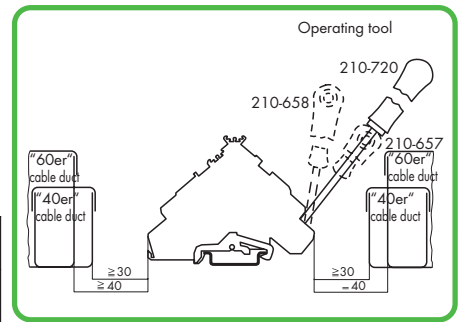
Min. mounting distance - terminal blocks to cable duct

0.08 - 2.5 mm² 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	0.08 - 2.5 mm² 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 300 V, 15 A
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- * 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, red 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	280-580/281-434 50	○ Circuit I	280-584/281-483 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	280-581/281-413 50	○ Circuit II	280-586/281-496 10

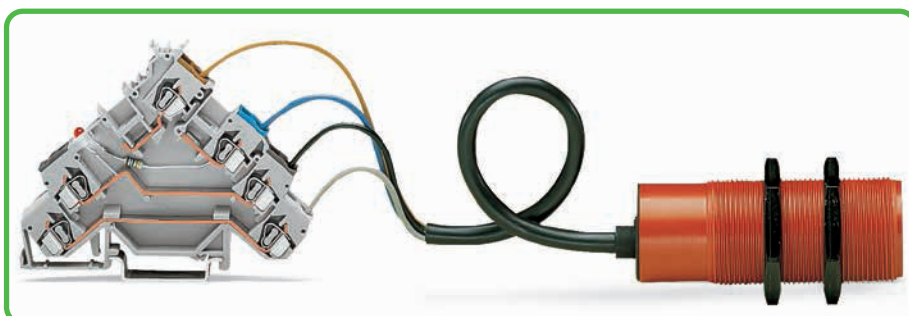


Min. mounting distance - terminal blocks to cable duct

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

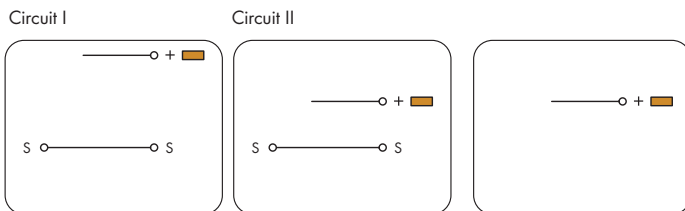
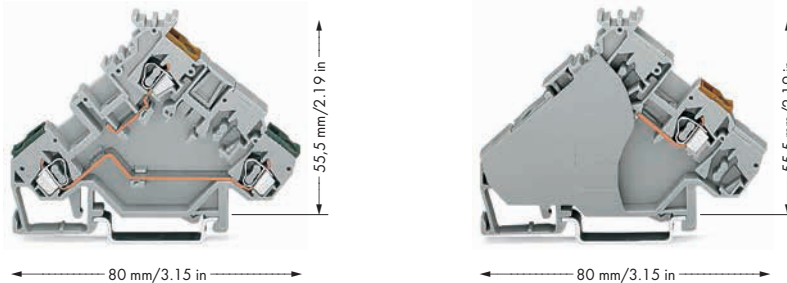
End and intermediate plate, 1 mm thick, for quadruple-deck terminal blocks  orange 280-323 100 (4x25)  gray 280-320 100 (4x25)	Insulation stop,  5 pcs/strip, 0.25 - 0.5 mm ² light gray 280-471 200 (8x25)
Insulation stop,  5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st") white 280-470 200 (8x25)	Insulation stop,  5 pcs/strip, 0.75 - 1 mm ² dark gray 280-472 200 (8x25)



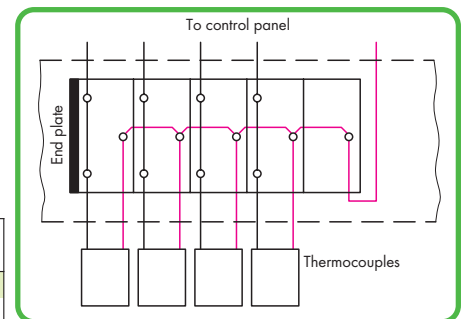
Sensor LED terminal block with 4-conductor sensor

Actuator Terminal Blocks 2.5 mm² for Pressure Switches, Thermocouples, etc. Serie 280

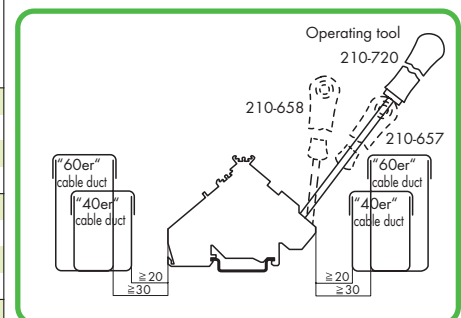
0.08 - 2.5 mm ² 400 V/6 kV/3 ① I _N 20 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 300 V, 15 A ② 300 V, 15 A ③	0.08 - 2.5 mm ² 400 V/6 kV/3 ① I _N 20 A Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 300 V, 15 A ② 300 V, 15 A ③
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- * AWG 12: THHN, THWN
- ① 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
- ② Strip length, see packaging or instructions.



Power supply from actuator side



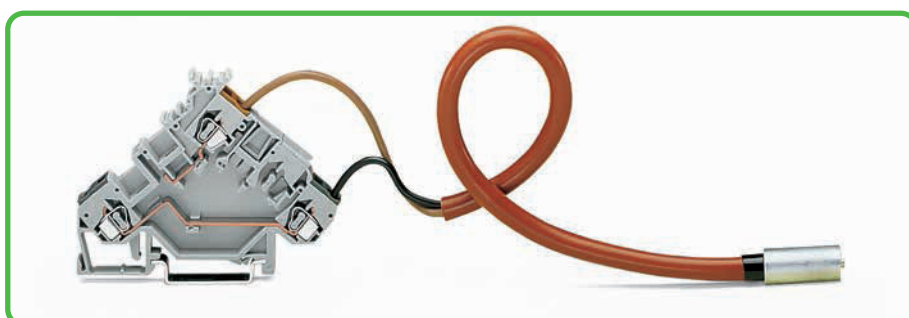
Min. mounting distance - terminal blocks to cable duct

Item No.	Pack. Unit	Item No.	Pack. Unit	
Actuator terminal block		Actuator supply terminal block,		
		in connection with 280-555: power supply from control cabinet side,		
		in connection with 280-554: power supply from actuator side,		
		with end plate		
○ Circuit I	280-555	50	○ 280-556	20
Actuator terminal block, (no picture)				
○ Circuit II	280-554	50		

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

End and intermediate plate, 1 mm thick, for triple-deck terminal blocks	Insulation stop,
orange 280-321 100 (4x25)	5 pcs/strip, 0.25 - 0.5 mm ²
gray 280-319 100 (4x25)	light gray 280-471 200 (8x25)
Insulation stop,	Insulation stop,
5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st")	5 pcs/strip, 0.75 - 1 mm ²
white 280-470 200 (8x25)	dark gray 280-472 200 (8x25)
Screwless end stop,	Screwless end stop,
for DIN 35 rail, 6 mm wide	for DIN 35 rail, 10 mm wide
gray 249-116 100 (4x25)	gray 249-117 50 (2x25)

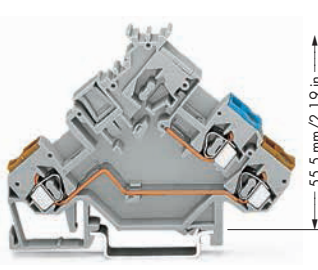


Actuator terminal block paired with a thermocouple

Certification organizations can be found in the overview on pages 622 and 623.

Actuator Terminal Blocks 2.5 mm² for Magnetic Valves, Servomotors, etc. 280 Series

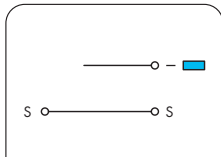
<p>0.08 - 2.5 mm² 400 V/6 kV/3; 20 A ① ② 250 V/4 kV/3; 20 A ① ②</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 15 A ④ 300 V, 15 A ⑤</p>	<p>0.08 - 2.5 mm² 125 V/5 A ② 250 V/6.3 A ②</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 6 A ④ 300 V, 15 A ⑤</p>	<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 10 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 10 A ④ 300 V, 15 A ⑤</p>
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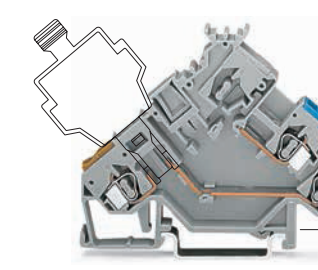


80 mm/3.15 in

55.5 mm/2.19 in

Circuit I

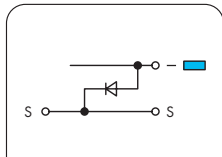


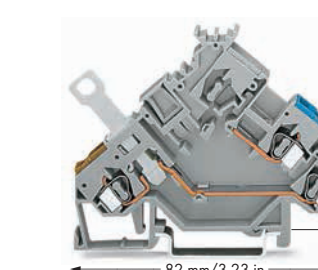


80 mm/3.15 in

55.5 mm/2.19 in

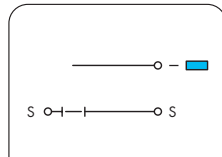
Circuit II



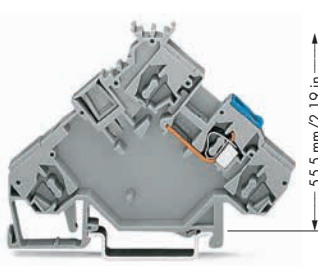


82 mm/3.23 in
85 mm/3.35 in

55.5 mm/2.19 in

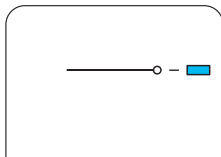


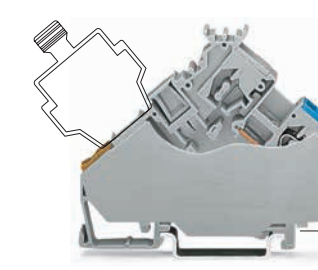
Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator terminal block		Actuator terminal block, for fuse plugs, for fuse protection of line voltage, without end plate		Actuator disconnect terminal block, for interruption of line	
● Circuit I	280-562	50	●	280-565 ④	50
Actuator terminal block,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



80 mm/3.15 in

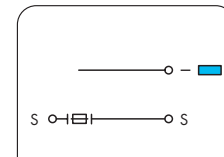
55.5 mm/2.19 in

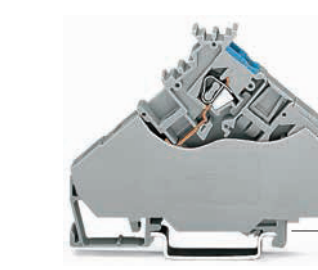




80 mm/3.15 in

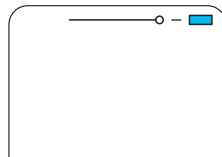
55.5 mm/2.19 in





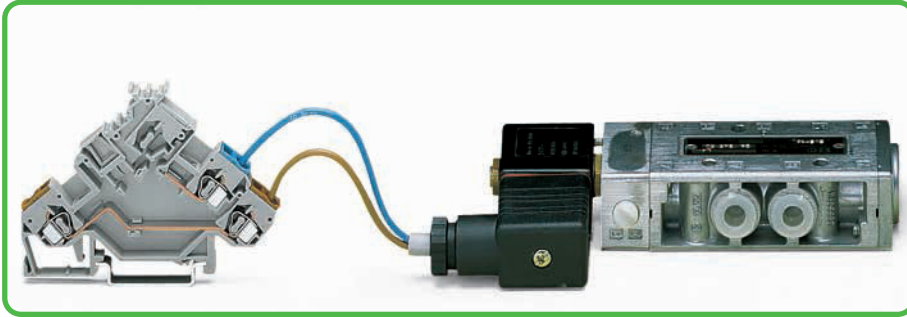
80 mm/3.15 in

55.5 mm/2.19 in



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

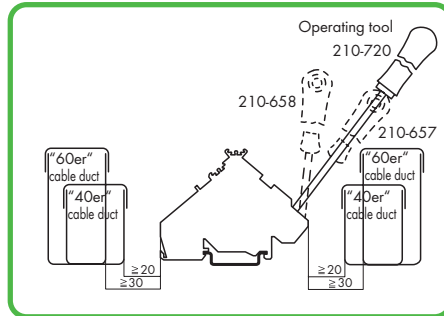
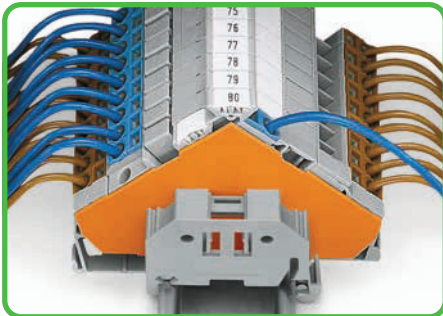
Certification organizations can be found in the overview on pages 622 and 623.



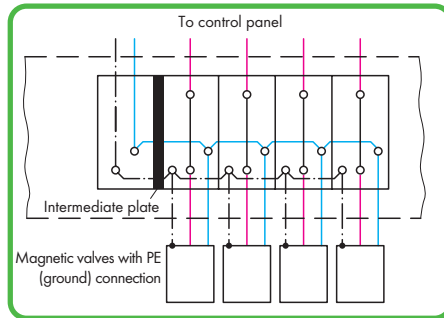
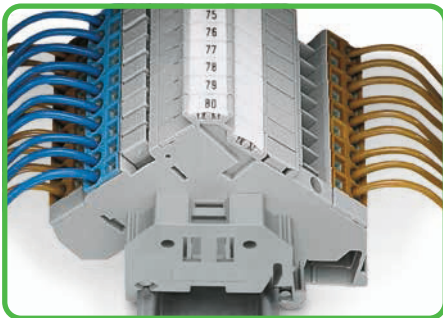
Actuator terminal block paired with a magnetic valve

* AWG 12: THHN, THWN

- ① 400 V/250 V = rated voltage
6 kV/4 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
- ② Electrical ratings are given by the fuse plug or empty component plug housing.
- ③ Strip length, see packaging or instructions.
- ④ For empty component plug housings, see interface modules
x = 12 mm/0.472 in
For fuse plugs, see page 248
x = 15.5 mm/0.61 in
y = 10 mm/0.394 in
- ⑤ See application notes for:
Insulation stop, page 293



Min. mounting distance - terminal blocks to cable duct



Power supply from control panel side

280 Series Accessories

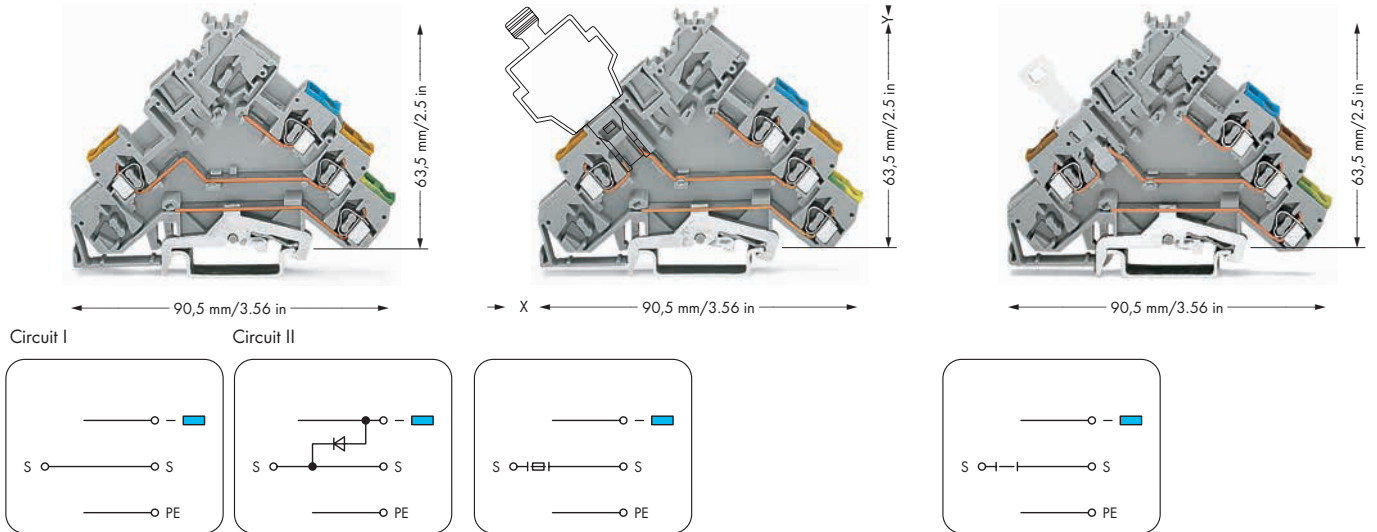
Appropriate marking system:
WMB (see Section 13)

End and intermediate plate, 1 mm thick, for triple-deck terminal blocks			
	orange	280-321	100 (4x25)
	gray	280-319	100 (4x25)
Insulation stop,			
⑤	5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st") white	280-470	200 (8x25)
Insulation stop,			
⑤	5 pcs/strip, 0.25 - 0.5 mm ² light gray	280-471	200 (8x25)
Insulation stop,			
⑤	5 pcs/strip, 0.75 - 1 mm ² dark gray	280-472	200 (8x25)
Adjacent jumper, insulated,			
	I _N = I _N terminal block gray	280-402	200 (8x25)
Screwless end stop, for DIN 35 rail, 6 mm wide			
	gray	249-116	100 (4x25)
Screwless end stop, for DIN 35 rail, 10 mm wide			
	gray	249-117	50 (2x25)

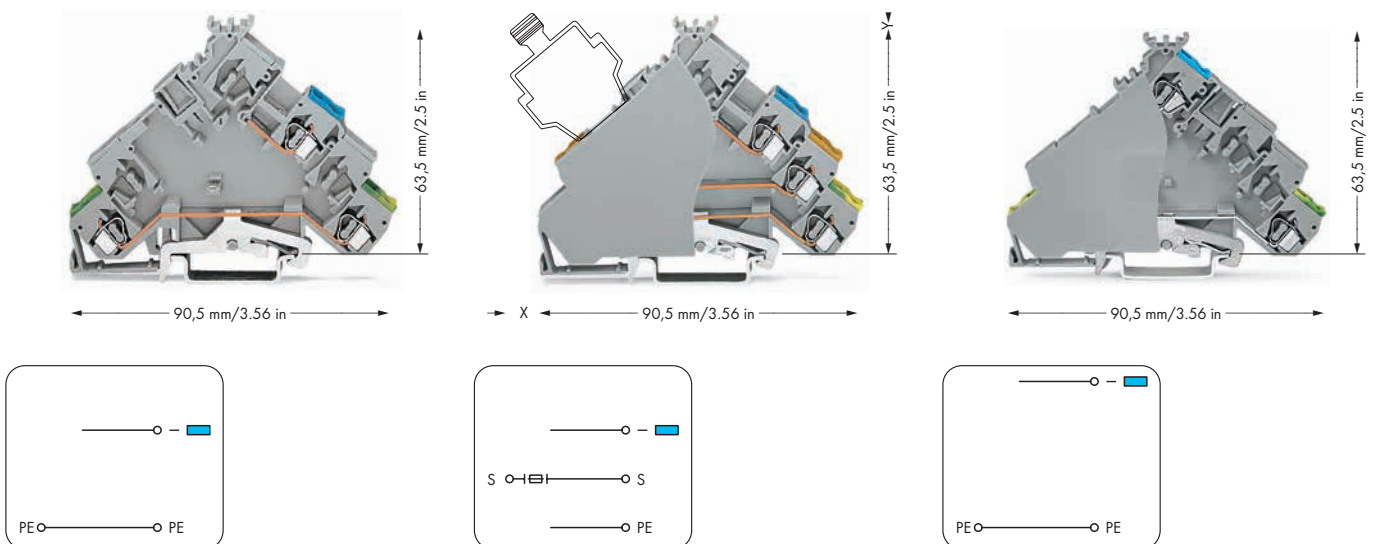
Actuator Terminal Blocks with Ground Connection 2.5 mm² for Magnetic Valves, Servomotors

280 Series

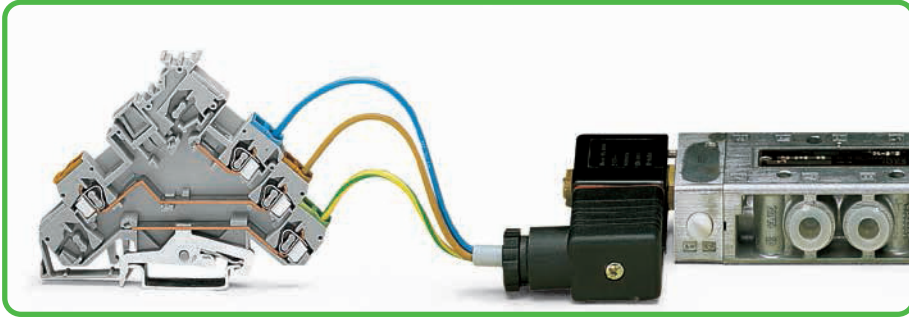
<p>0.08 - 2.5 mm² 400 V/6 kV/3; 20 A ① ② 250 V/4 kV/3; 20 A ① ②</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 15 A ④ 300 V, 15 A ⑤</p>	<p>0.08 - 2.5 mm² 125 V/5 A ② 250 V/6.3 A ②</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 6 A ④ 300 V, 15 A ⑤</p>	<p>0.08 - 2.5 mm² 400 V/6 kV/3 ① I_N 10 A</p> <p>Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ③</p>	<p>AWG 28 - 12 * 300 V, 10 A ④ 300 V, 15 A ⑤</p>
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Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator terminal block with ground connection		Actuator terminal block with ground connection, for fuse plugs,		Actuator disconnect terminal block with ground connection,	
for fuse protection of line voltage, without end plate		for interruption of line			
● Circuit I	280-572	50	●	280-575 ④	50
Actuator terminal block with ground connection, with recovery diode 1N4007					
● Circuit II	280-572/281-411	50		280-576	50



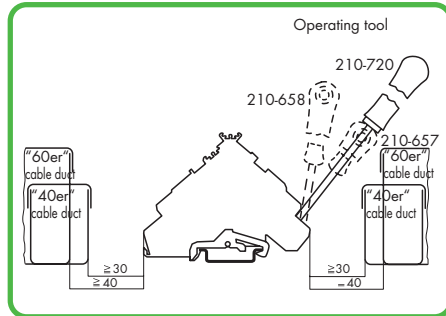
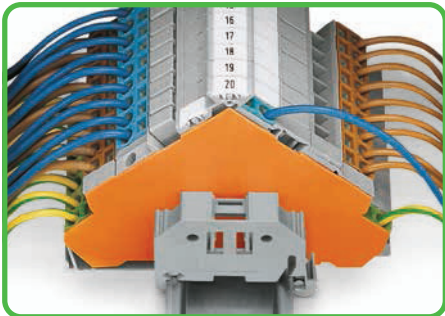
Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator supply terminal block with ground connection, power supply from actuator side		Actuator terminal block with ground connection, for fuse plugs, for fuse protection of line voltage, with gray end plate		Actuator supply terminal block with ground connection, power supply from control panel side, with end plate	
●	280-593	10	●	280-575/280-320	50
			●	280-575/280-323	50
			Technical data: 400 V/6 kV/3		I _N 20 A



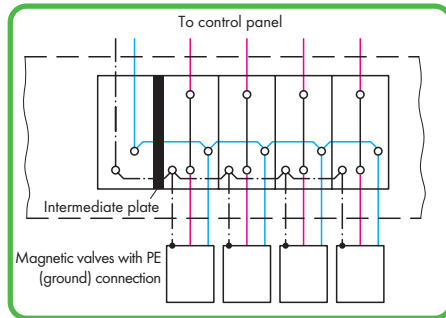
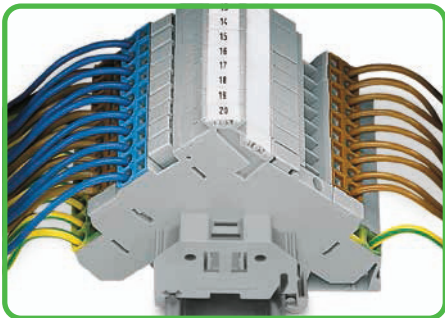
Actuator terminal block paired with a magnetic valve with ground connection

* AWG 12: THHN, THWN

- 1 400 V/250 V = rated voltage
6 kV/4 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
- 2 Electrical ratings are given by the fuse plug or empty component plug housing.
- 3 Strip length, see packaging or instructions.
- 4 For empty component plug housings, see interface modules
x = 12 mm/0.472 in
For fuse plugs, see page 248
x = 15.5 mm/0.61 in
y = 10 mm/0.394 in
- 5 See application notes for:
Insulation stop, page 293



Min. mounting distance - terminal blocks to cable duct



Power supply from control panel side

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

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

Insulation stop,			
	5 pcs/strip,	0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st")	
	white	280-470	200 (8x25)

Insulation stop,			
	5 pcs/strip,	0.25 - 0.5 mm ²	
	light gray	280-471	200 (8x25)

Insulation stop,			
	5 pcs/strip,	0.75 - 1 mm ²	
	dark gray	280-472	200 (8x25)

Adjacent jumper, insulated,			
	I _N = I _N terminal block	gray	
		280-402	200 (8x25)

Screwless end stop,			
for DIN 35 rail,			
6 mm wide			
	gray	249-116	100 (4x25)

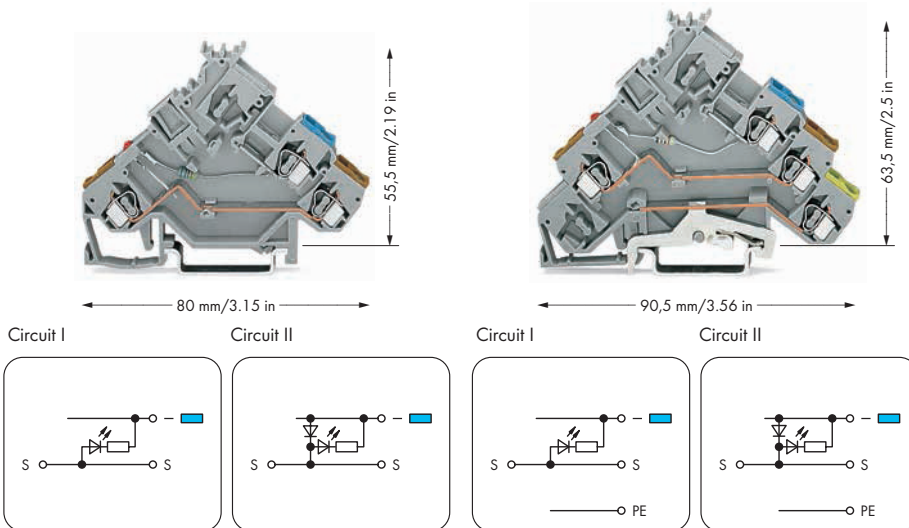
Screwless end stop,			
for DIN 35 rail,			
10 mm wide			
	gray	249-117	50 (2x25)

Actuator LED Terminal Blocks

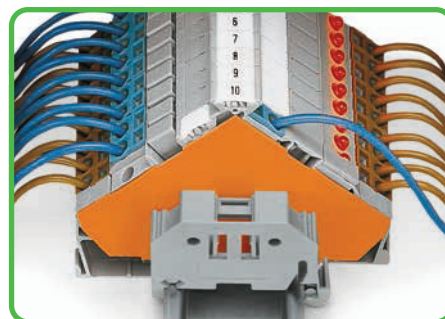
Actuator LED Terminal Blocks with Ground Connection 2.5 mm² 280 Series



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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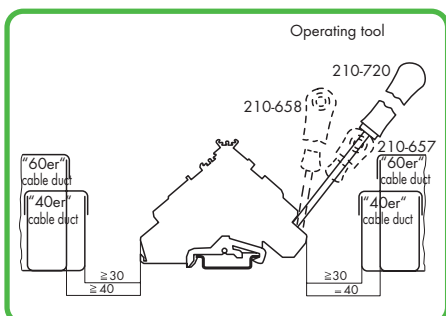
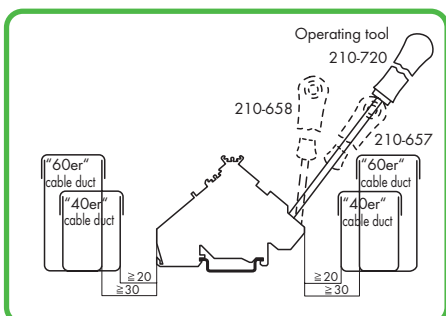
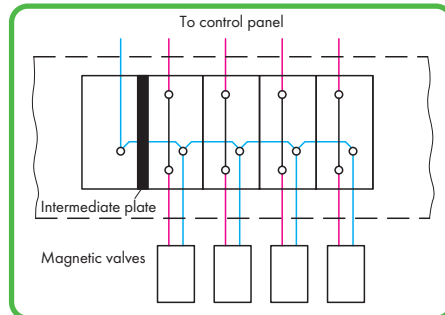
- * AWG 12: THHN, THWN
- ① Other voltages upon request.
- ② Strip length, see packaging or instructions.
- ③ See application notes for: Insulation stop, page 293



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, ③ 5 pcs/strip, 0.08 - 0.2 mm ² "s" (0.14 mm ² "f-st") white 280-470 200 (8x25)	Adjacent jumper, insulated, I _N = I _N terminal block gray 280-402 200 (8x25)

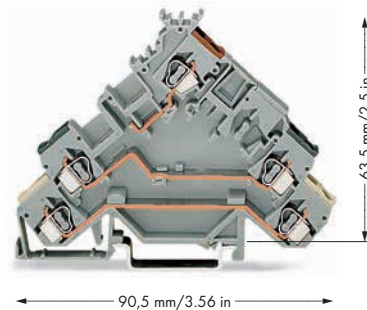
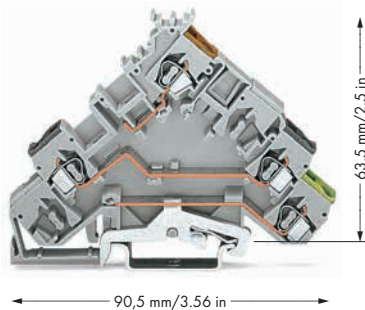


Min. mounting distance - terminal blocks to cable duct

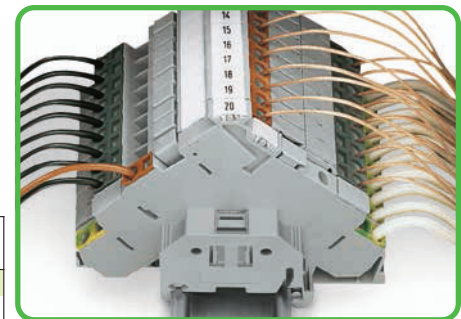
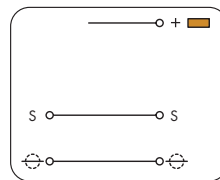
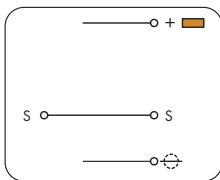
Certification organizations can be found in the overview on pages 622 and 623.

Actuator Terminal Blocks 2.5 mm² for Actuators with Shield Connection and Actuators with Shield Conductor Through Contact for Thermocouples, etc. – 280 Series

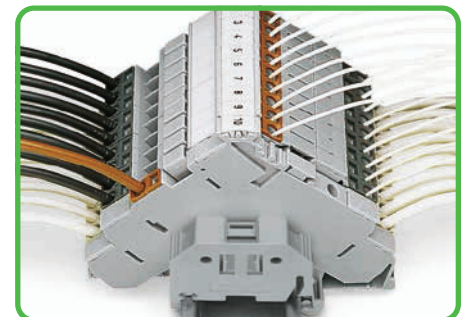
0.08 - 2.5 mm ² 400 V/6 kV/3 ① I _N 20 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 300 V, 15 A ② 300 V, 15 A ③	0.08 - 2.5 mm ² 400 V/6 kV/3 ① I _N 20 A Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ②	AWG 28 - 12 * 300 V, 15 A ② 300 V, 15 A ③
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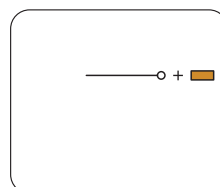
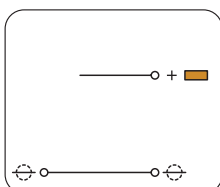
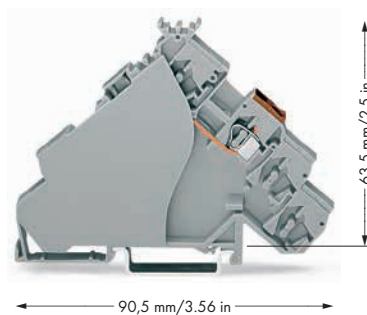
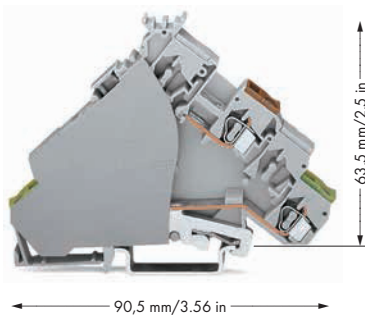
- * AWG 12: THHN, THWN
- ① 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)
- ② Strip length, see packaging or instructions.



Green-yellow clamping unit = shield contact



White clamping unit = shield conductor through contact



Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator terminal block with shield connection		Actuator terminal block with shield conductor through contact	
280-585	50	280-583	50
Item-specific accessories, see page 263		Item-specific accessories, see page 263	

Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator supply terminal block with shield connection, power supply from control panel side, with end plate		Actuator supply terminal block, power supply from control panel side, with end plate, for actuators with shield conductor through contact	
280-586	50	280-515	20
Item-specific accessories, see page 263		Item-specific accessories, see page 263	

Certification organizations can be found in the overview on pages 622 and 623.