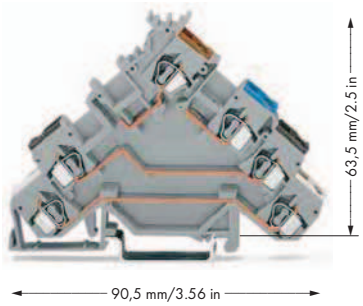
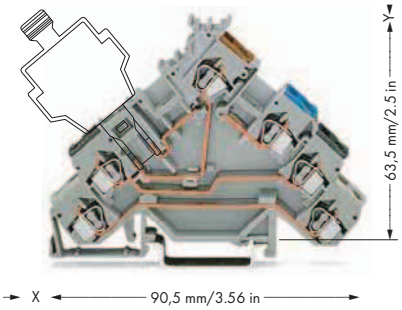
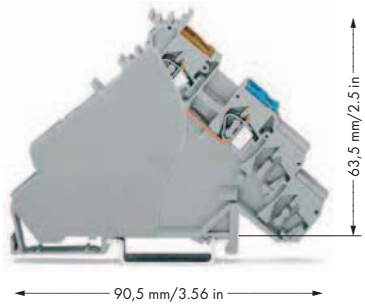
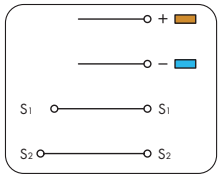
Sensor Terminal Blocks 2.5 mm² for 4-Conductor Sensors
280 Series

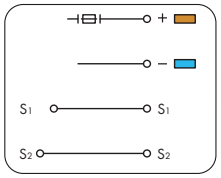
0.08 - 2.5 mm²	AWG 28 - 12 *	0.08 - 2.5 mm²	AWG 28 - 12 *	0.08 - 2.5 mm²	AWG 28 - 12 *
400 V/6 kV/3 ❶	300 V, 15 A	125 V/5 A ❷	300 V, 6 A	400 V/6 kV/3 ❶	24 V, 15 A
I_N 20 A	300 V, 15 A	250 V/6.3 A ❷	300 V, 15 A	I_N 20 A	300 V, 15 A
Terminal block width 5 mm / 0.197 in		Terminal block width 5 mm / 0.197 in		Terminal block width 6 mm / 0.236 in	
8 - 9 mm / 0.33 in ❸		8 - 9 mm / 0.33 in ❸		8 - 9 mm / 0.33 in ❸	

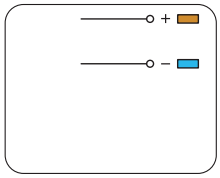








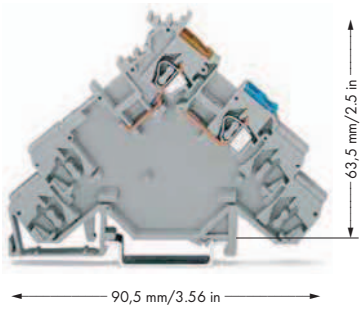


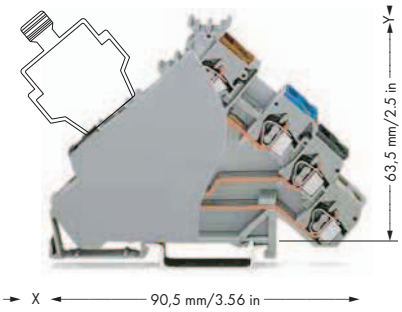


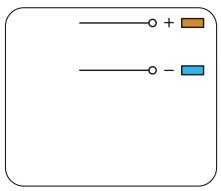
Item No.	Pack. Unit
Sensor terminal block	
○ **280-580**	50

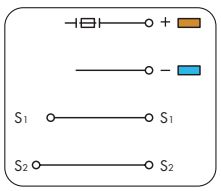
Item No.	Pack. Unit
Sensor terminal block,	
for fuse plugs,	
for PNP (positive) switching sensors without end plate	
○ **280-588** ❹	50

Item No.	Pack. Unit
Sensor supply terminal block,	
power supply from control panel side,	
with end plate	
○ **280-587**	20





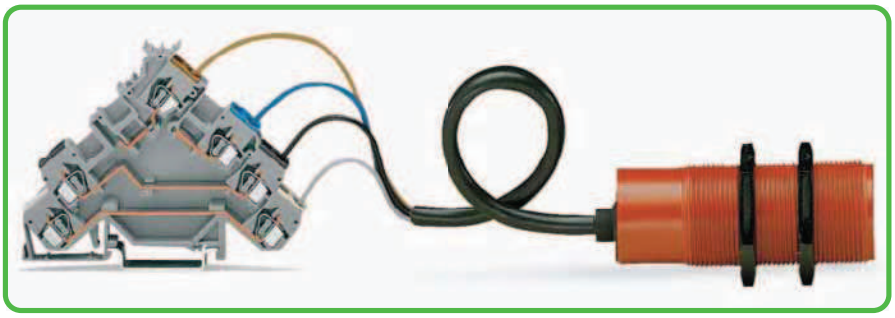




Item No.	Pack. Unit
Sensor supply terminal block,	
power supply from sensor side,	
without end plate	
○ **280-584**	10

Item No.	Pack. Unit
Sensor terminal block,	
for fuse plugs,	
for PNP (positive) switching sensors with end plate	
○ gray **280-588/280-320**	50
○ gray **280-588/280-323**	50

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



Sensor terminal block with 4-conductor sensor

* AWG 12: THHN, THWN

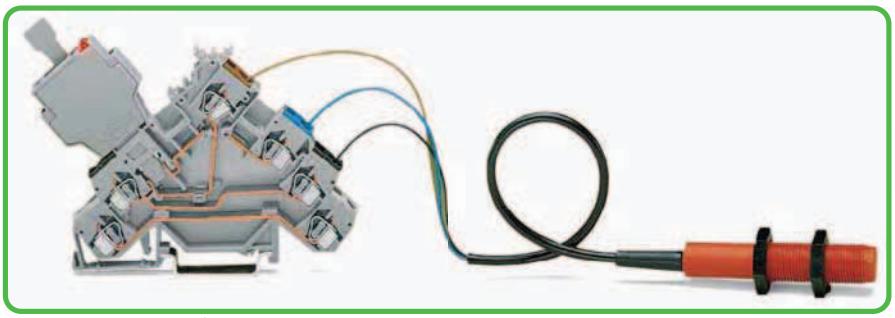
❶ 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Strip length, see packaging or instructions.

❹ For empty component plug housings, see interface modules
x=12 mm/0.472 in
For fuse plugs, see page 230
x = 15.5 mm/0.61 in
y = 10 mm/0.394 in

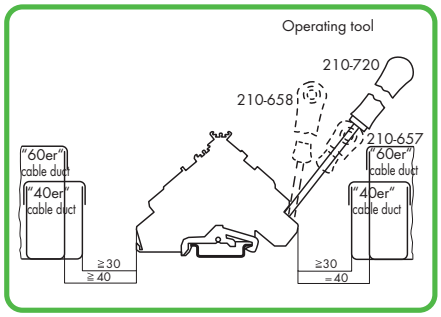
❺ See application notes for:
Insulation stop, page 199



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



The fuse plug is 1 mm/0.039 in wider than the terminal block. This means an intermediate plate has to be fitted.



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,			
❺ 	5 pcs/strip,		
	0.08 - 0.2 mm² "s" (0.14 mm² "f-st")		
	white	**280-470**	200 (8x25)
Insulation stop,			
❺ 	5 pcs/strip,		
	0.25 - 0.5 mm²		
	light gray	**280-471**	200 (8x25)
Insulation stop,			
❺ 	5 pcs/strip,		
	0.75 - 1 mm²		
	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)

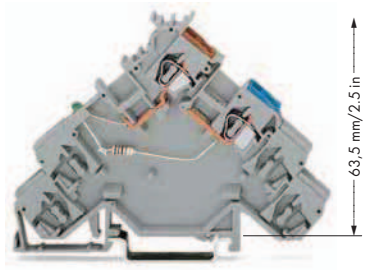
Sensor LED Terminal Blocks 2.5 mm² for 4-Conductor Sensors 280 Series

CAGE CLAMP®

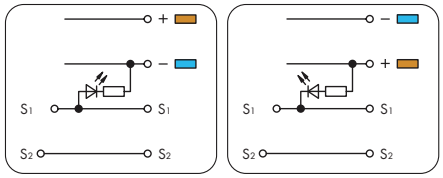
0.08 - 2.5 mm²	AWG 28 - 12 *
24 VDC ❶	24 V, 15 A
20 A	
Terminal block width 5 mm / 0.197 in	
8 - 9 mm / 0.33 in ❷	

0.08 - 2.5 mm²	AWG 28 - 12 *
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width 5 mm / 0.197 in	
8 - 9 mm / 0.33 in ❷	

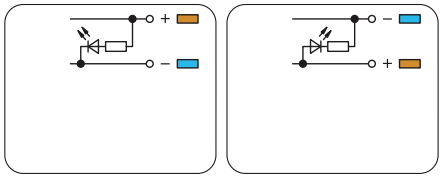




Circuit I Circuit II



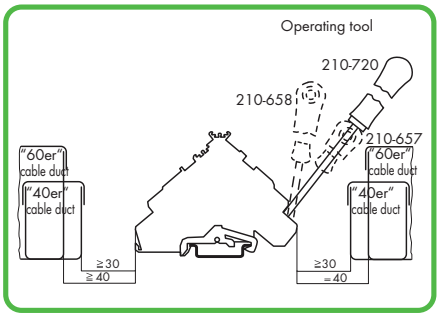
Circuit I Circuit II



* AWG 12: THHN, THWN

❶ Other voltages upon request.

❷ Strip length, see packaging or instructions.



Min. mounting distance – terminal blocks to cable duct

Item No.		Pack. Unit
Sensor LED terminal block,		
for PNP (positive) switching sensors,		
red LED, 24 VDC, LED power consumption: 4.8 mA		
◯ Circuit I	**280-580/281-434**	50
Sensor LED terminal block,		
for NPN (negative) switching sensors,		
red LED, 24 VDC, LED power consumption: 4.8 mA		
◯ Circuit II	**280-581/281-413**	50

Item No.		Pack. Unit
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	**280-584/281-483**	10
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	**280-586/281-496**	10

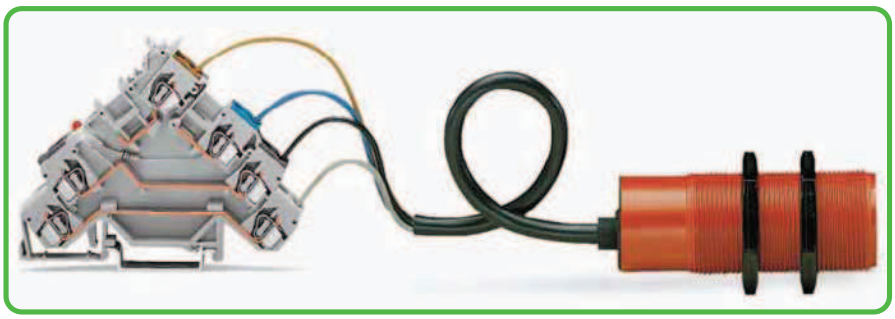
280 Series Accessories

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 mm² "s" (0.14 mm² "f-st")			
white	**280-470**	200 (8x25)	

Insulation stop, 5 pcs/strip, 0.25 - 0.5 mm²			
light gray	**280-471**	200 (8x25)	
Insulation stop, 5 pcs/strip, 0.75 - 1 mm²			
dark gray	**280-472**	200 (8x25)	





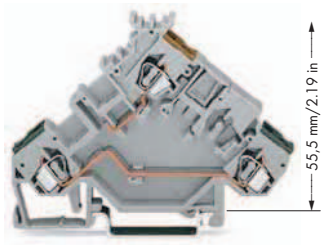
Sensor LED terminal block with 4-conductor sensor

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

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

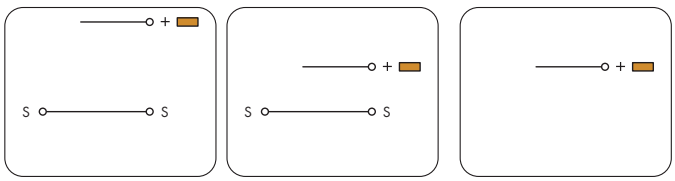
0.08 - 2.5 mm²	AWG 28 - 12 *
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width 5 mm / 0.197 in	
8 - 9 mm / 0.33 in ❷	

0.08 - 2.5 mm²	AWG 28 - 12 *
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width 6 mm / 0.236 in	
8 - 9 mm / 0.33 in ❷	





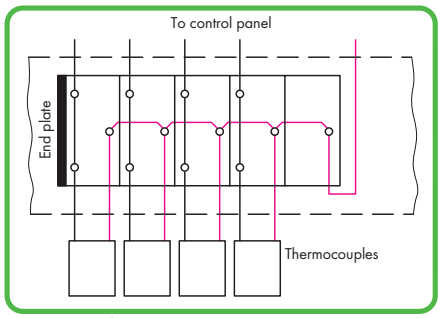
Circuit I Circuit II



* AWG 12: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

❷ Strip length, see packaging or instructions.



Power supply from actuator side

	Item No.	Pack. Unit
Actuator terminal block		
Circuit I	**280-555**	50
Actuator terminal block, (no picture)		
Circuit II	**280-554**	50

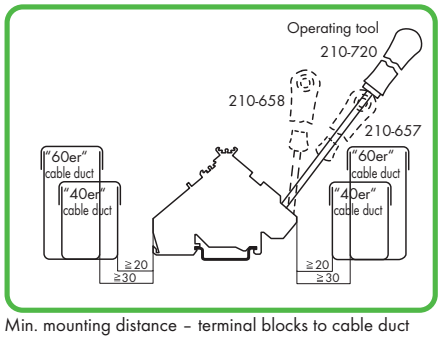
	Item No.	Pack. Unit
Actuator supply terminal block, in connection with 280-555: power supply from control cabinet side, in connection with 280-554: power supply from actuator side, with end plate		
	280-556	20

280 Series Accessories

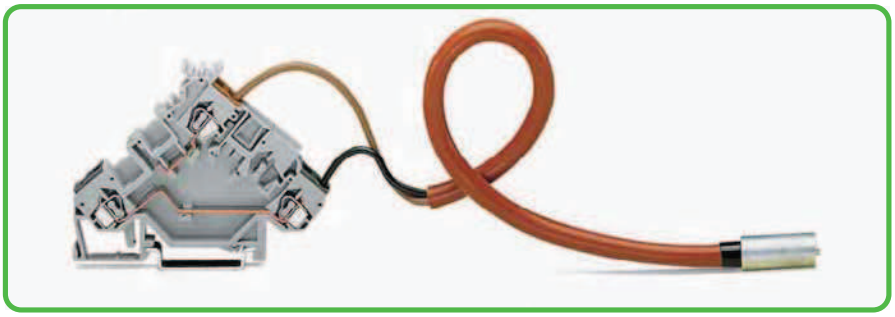
Appropriate marking system:
WMB (see Section 13)

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, 0.08 - 0.2 mm² "s" (0.14 mm² "f-st")			
white	**280-470**	200 (8x25)	
Screwless end stop, for DIN 35 rail, 6 mm wide			
gray	**249-116**	100 (4x25)	

Insulation stop, 5 pcs/strip, 0.25 - 0.5 mm²		
light gray	**280-471**	200 (8x25)
Insulation stop, 5 pcs/strip, 0.75 - 1 mm²		
dark gray	**280-472**	200 (8x25)
Screwless end stop, for DIN 35 rail, 10 mm wide		
gray	**249-117**	50 (2x25)



Min. mounting distance – terminal blocks to cable duct

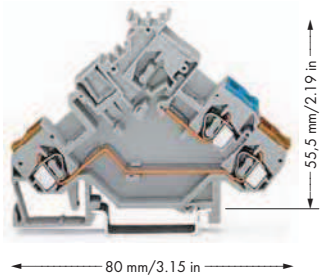


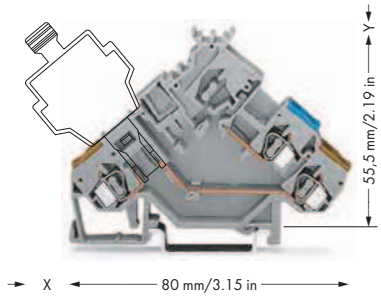
Actuator terminal block paired with a thermocouple

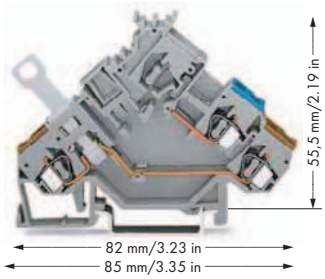
For list of approvals and user guide, see pages 634 to 637.

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

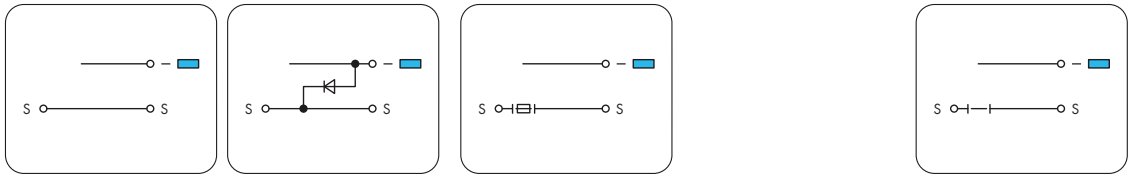
0.08 - 2.5 mm² 400 V/6 kV/3; 20 A ❶ ❷ 250 V/4 kV/3; 20 A ❶ ❷ Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❸	AWG 28 - 12 * 300 V, 15 A 300 V, 15 A	0.08 - 2.5 mm² 125 V/5 A ❷ 250 V/6.3 A ❷ Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❸	AWG 28 - 12 * 300 V, 6 A 300 V, 15 A	0.08 - 2.5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







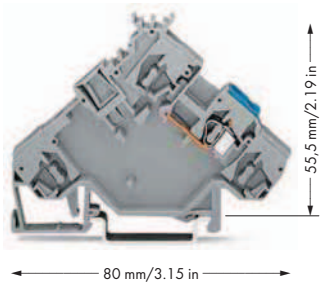
Circuit I Circuit II

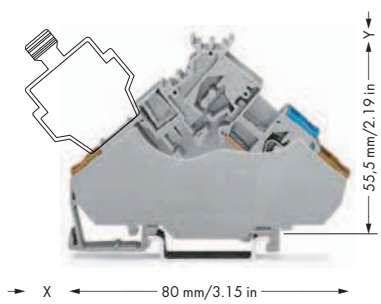


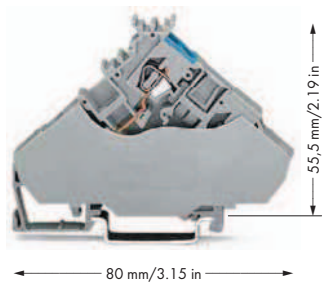
Item No.	Pack. Unit
Actuator terminal block	
◯ Circuit I **280-562**	50
Actuator terminal block,	
with recovery diode 1N4007	
◯ Circuit II **280-562/281-411**	50

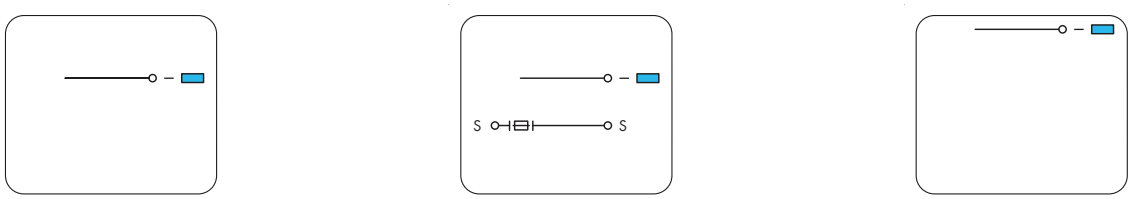
Item No.	Pack. Unit
Actuator terminal block,	
for fuse plugs,	
for fuse protection of line voltage, without end plate	
◯ **280-565** ❹	50

Item No.	Pack. Unit
Actuator disconnect terminal block,	
for interruption of line	
◯ **280-566**	50







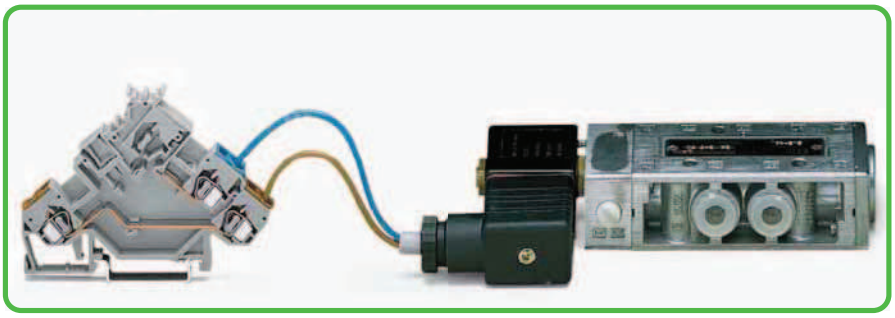


Item No.	Pack. Unit
Actuator supply terminal block,	
power supply form actuator side	
◯ **280-592**	10

Item No.	Pack. Unit
Actuator terminal block,	
for fuse plugs,	
for fuse protection of line voltage, with end plate	
◯ gray **280-565/280-319**	50
◯ gray **280-565/280-321**	50

Item No.	Pack. Unit
Actuator supply terminal block,	
power supply from control panel side,	
with end plate	
◯ **280-568**	20
Technical data:	
400 V/6 kV/3	I_N 20 A

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



Actuator terminal block paired with a magnetic valve

* AWG 12: THHN, THWN

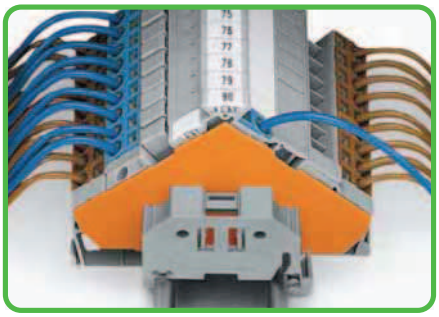
❶ 400 V/250 V = rated voltage
6 kV/4 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

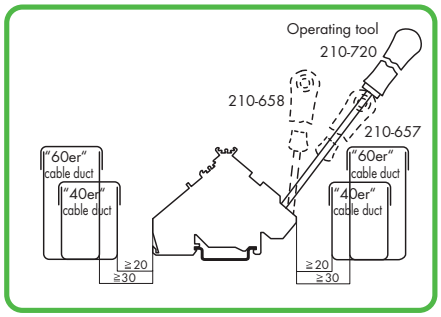
❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Strip length, see packaging or instructions.

❹ For empty component plug housings, see interface modules
x=12 mm/0.472 in
For fuse plugs, see page 232
x = 15.5 mm/0.61 in
y = 10 mm/0.394 in

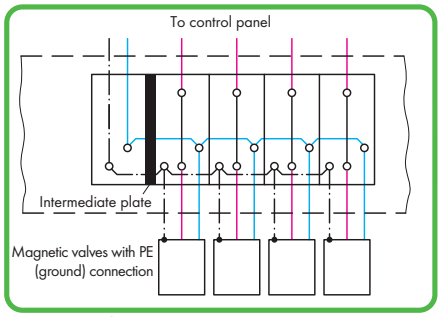
❺ See application notes for:
Insulation stop, page 199





Min. mounting distance – terminal blocks to cable duct





Power supply from control panel side

280 Series Accessories

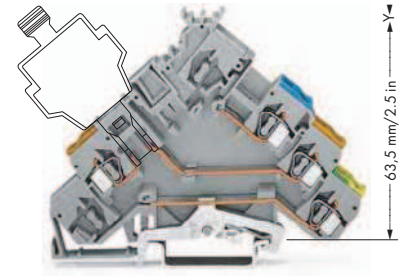
Appropriate marking system:
WMB (see Section 13)

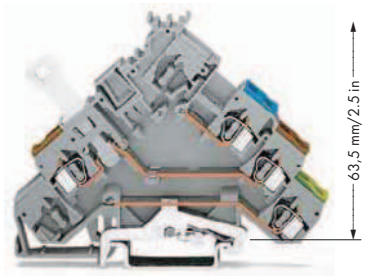
End and intermediate plate, 1 mm thick, for triple-deck terminal blocks			
	orange	**280-321**	100 (4x25)
	gray	**280-319**	100 (4x25)
Insulation stop, ❺	5 pcs/strip, 0.08 - 0.2 mm² "s" (0.14 mm² "f-st")		
	white	**280-470**	200 (8x25)
Insulation stop, ❺	5 pcs/strip, 0.25 - 0.5 mm²		
	light gray	**280-471**	200 (8x25)
Insulation stop, ❺	5 pcs/strip, 0.75 - 1 mm²		
	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

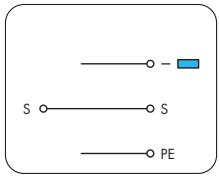
0.08 - 2.5 mm²	AWG 28 - 12 *	0.08 - 2.5 mm²	AWG 28 - 12 *	0.08 - 2.5 mm²	AWG 28 - 12 *
400 V/6 kV/3; 20 A ❶ ❷	300 V, 15 A	125 V/5 A ❷	300 V, 6 A	400 V/6 kV/3 ❶	300 V, 10 A
250 V/4 kV/3; 20 A ❶ ❷	300 V, 15 A	250 V/6.3 A ❷	300 V, 15 A	I_N 10 A	300 V, 15 A
Terminal block width 5 mm / 0.197 in		Terminal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

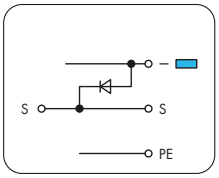


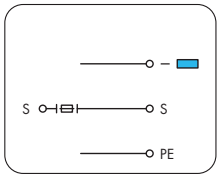


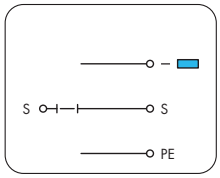


Circuit I Circuit II



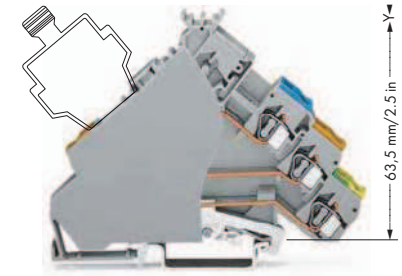




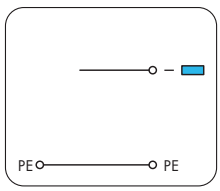


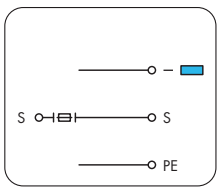
Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator terminal block with ground connection		**Actuator terminal block with ground connection,** for fuse plugs, for fuse protection of line voltage, without end plate		**Actuator disconnect terminal block with ground connection,** for interruption of line	
Circuit I **280-572**	50	**280-575** ❹	50	**280-576**	50
Actuator terminal block with ground connection, with recovery diode 1N4007					
Circuit II **280-572/281-411**	50				

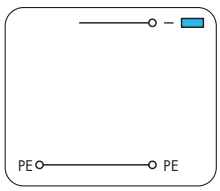






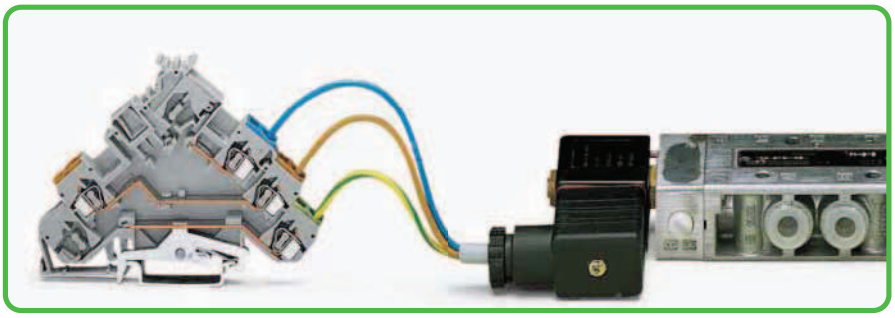






Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Actuator supply terminal block with ground connection, power supply form actuator side		**Actuator terminal block with ground connection,** for fuse plugs, for fuse protection of line voltage, with end plate		**Actuator supply terminal block with ground connection,** power supply from control panel side, with end plate	
280-593	10	gray **280-575/280-320**	50	**280-578**	20
		gray **280-575/280-323**	50		
				Technical data:	
				400 V/6 kV/3	I_N 20 A

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



Actuator terminal block paired with a magnetic valve with ground connection

* AWG 12: THHN, THWN

❶ 400 V/250 V = rated voltage
6 kV/4 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

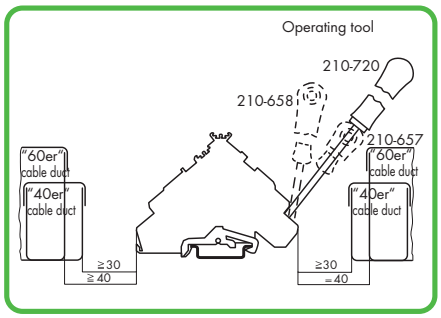
❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Strip length, see packaging or instructions.

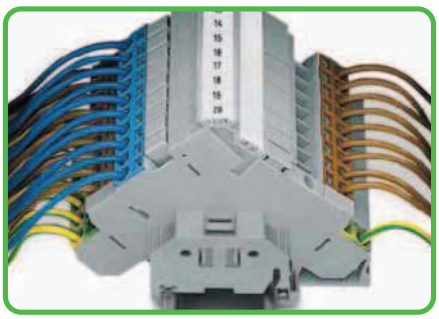
❹ For empty component plug housings, see interface modules
x=12 mm/0.472 in
For fuse plugs, see page 230
x = 15.5 mm/0.61 in
y = 10 mm/0.394 in

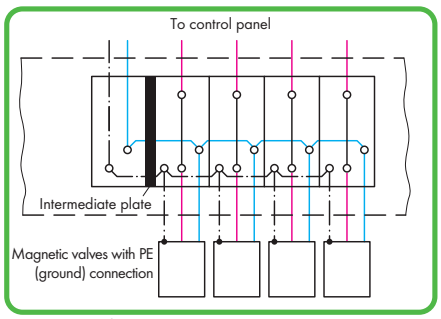
❺ See application notes for:
Insulation stop, page 199





Min. mounting distance – terminal blocks to cable duct





Power supply from control panel side

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

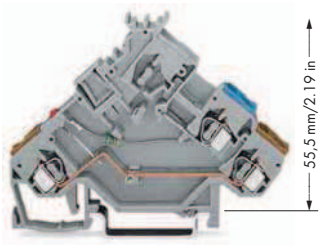
End and intermediate plate, 1 mm thick, for quadruple-deck terminal blocks			
	orange	**280-323**	100 (4x25)
	gray	**280-320**	100 (4x25)
Insulation stop, ❺ 5 pcs/strip, 0.08 - 0.2 mm² "s" (0.14 mm² "f-st")			
	white	**280-470**	200 (8x25)
Insulation stop, ❺ 5 pcs/strip, 0.25 - 0.5 mm²			
	light gray	**280-471**	200 (8x25)
Insulation stop, ❺ 5 pcs/strip, 0.75 - 1 mm²			
	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

CAGE CLAMP®

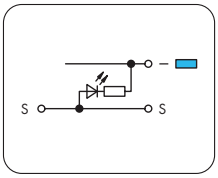
0.08 - 2.5 mm²	AWG 28 - 12 *
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width 5 mm / 0.197 in	
8 - 9 mm / 0.33 in ❷	

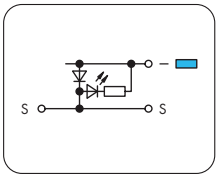
0.08 - 2.5 mm²	AWG 28 - 12 *
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width 5 mm / 0.197 in	
8 - 9 mm / 0.33 in ❷	



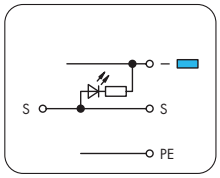


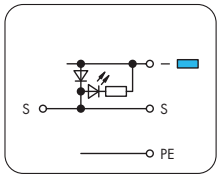
Circuit I Circuit II





Circuit I Circuit II



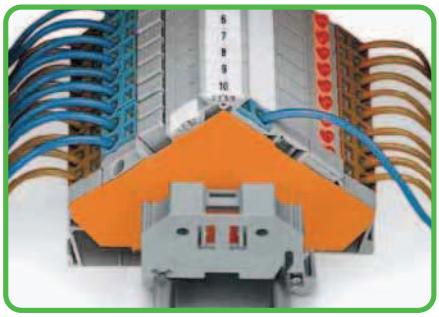


* AWG 12: THHN, THWN

❶ Other voltages upon request.

❷ Strip length, see packaging or instructions.

❸ See application notes for:
Insulation stop, page 199



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

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

Item-Specific Accessories

End and intermediate plate, 1 mm thick,



for triple-deck terminal blocks		
orange	**280-321**	100 (4x25)
gray	**280-319**	100 (4x25)

Item-Specific Accessories

End and intermediate plate, 1 mm thick,



for quadruple-deck terminal blocks		
orange	**280-323**	100 (4x25)
gray	**280-320**	100 (4x25)

280 Series Accessories

Appropriate marking system:
WMB (see Section 13)

Insulation stop, ❸

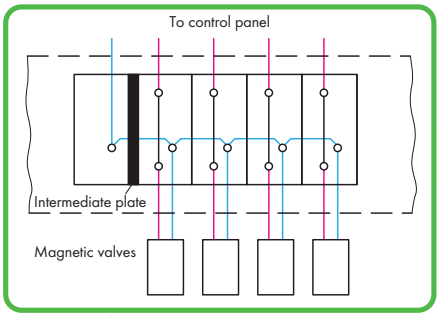


5 pcs/strip,		
0.08 - 0.2 mm² "s" (0.14 mm² "f-st")		
white	**280-470**	200 (8x25)

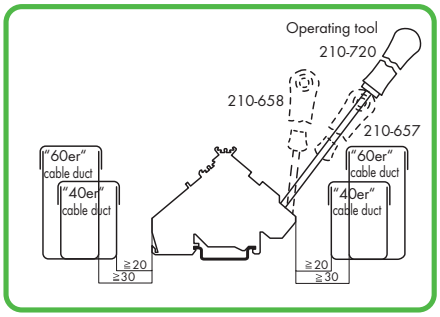
Adjacent jumper, insulated,



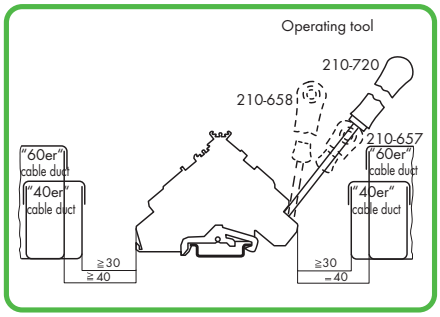
$I_N = I_N$ terminal block		
gray	**280-402**	200 (8x25)



Power supply from control panel side



Min. mounting distance – terminal blocks to cable duct



Min. mounting distance – terminal blocks to cable duct

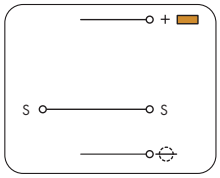
For list of approvals and user guide, see pages 634 to 637.

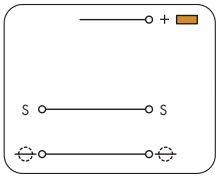
Actuator Terminal Blocks 2.5 mm² for Actuators with Shield Connection and Actuators with Shield Conductor Through Contact for Thermocouples, etc. – 280 Series

0.08 - 2.5 mm² / 400 V/6 kV/3 ❶ / I_N 20 A	AWG 28 - 12 * / 300 V, 15 A / 300 V, 15 A
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❷	
0.08 - 2.5 mm² / 400 V/6 kV/3 ❶ / I_N 20 A	AWG 28 - 12 * / 300 V, 15 A
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❷	









Item No.	Pack. Unit
Actuator terminal block with shield connection	
280-585	50
Item-specific accessories, see page 242	

Item No.	Pack. Unit
Actuator terminal block with shield conductor through contact	
280-583	50
Item-specific accessories, see page 242	

* AWG 12: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(also see Section 14)

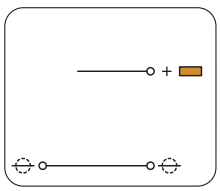
❷ Strip length, see packaging or instructions.

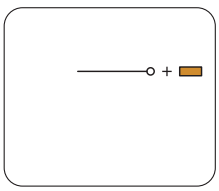


Green-yellow clamping unit = shield contact









Item No.	Pack. Unit
Actuator supply terminal block with shield connection, power supply from control panel side, with end plate	
280-586	50
Item-specific accessories, see page 242	

Item No.	Pack. Unit
Actuator supply terminal block, power supply from control panel side, with end plate, for actuators with shield conductor through contact	
280-515	20
Item-specific accessories, see page 242	

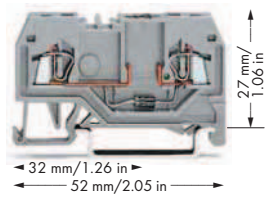


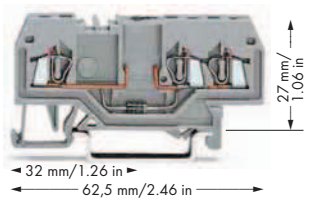
White clamping unit = shield conductor through contact

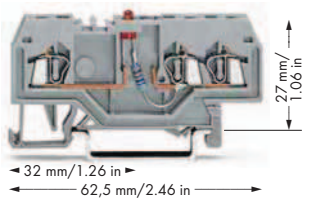
For list of approvals and user guide, see pages 634 to 637.

Diode Terminal Blocks and LED Terminal Blocks 1.5 mm²
279 Series

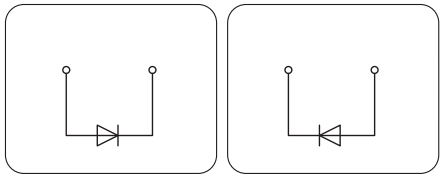
0.08 - 1.5 mm² | AWG 28 - 16 **U_N 250 V, U_{RM} 1000 V** **1N4007 - 0.5 A continuous current** **Terminal block width 4 mm / 0.157 in** **8 - 9 mm / 0.33 in** ❶	**0.08 - 1.5 mm² | AWG 28 - 16** **U_N 250 V, U_{RM} 1000 V** **1N4007 - 0.5 A continuous current** **Terminal block width 4 mm / 0.157 in** **8 - 9 mm / 0.33 in** ❶	**0.08 - 1.5 mm² | AWG 28 - 16** **24 VDC** **I_F 0.025 A max.** **Terminal block width 4 mm / 0.157 in** **8 - 9 mm / 0.33 in** ❶



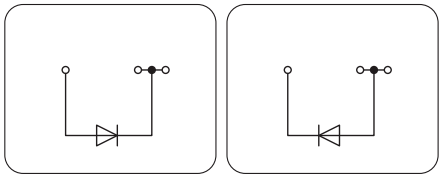




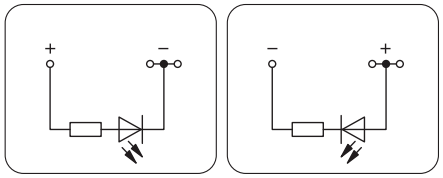
Circuit I Circuit II



Circuit I Circuit II



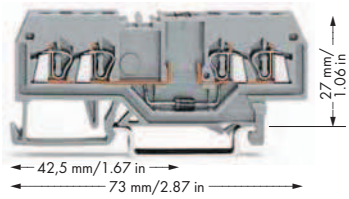
Circuit I Circuit II

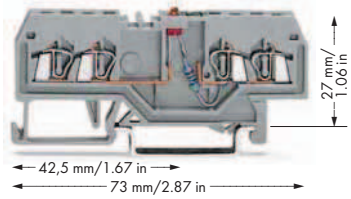


	Item No.	Pack. Unit
2-conductor diode terminal block with 1N4007		
diode, gray		
Circuit I	**279-915/281-410**	100
Circuit II	**279-915/281-411**	100

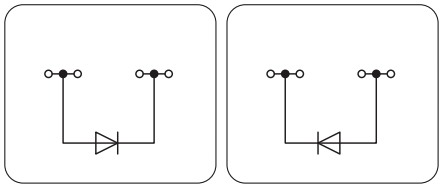
	Item No.	Pack. Unit
3-conductor diode terminal block with 1N4007		
diode, gray		
Circuit I	**279-673/281-410**	100
Circuit II	**279-673/281-411**	100

	Item No.	Pack. Unit
3-conductor LED terminal block with red LED,		
24 VDC, gray		
Circuit I	**279-674/281-434**	100
Circuit II	**279-674/281-413**	100

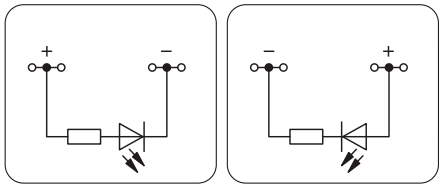




Circuit I Circuit II



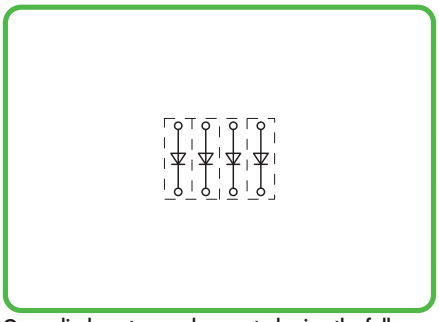
Circuit I Circuit II



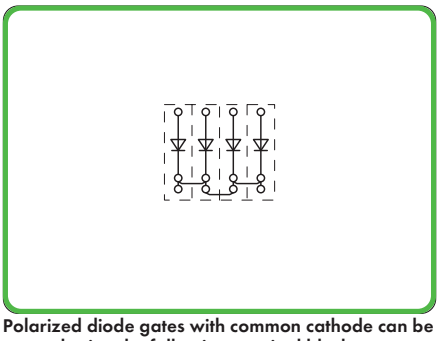
Through terminal blocks with same profile,	**4-conductor diode terminal block with 1N4007**	**4-conductor LED terminal block with red LED,**
see page 162	**diode,** gray	24 VDC, gray
	Circuit I **279-815/281-410** 100	Circuit I **279-809/281-434** 100
	Circuit II **279-815/281-411** 100	Circuit II **279-809/281-413** 100

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

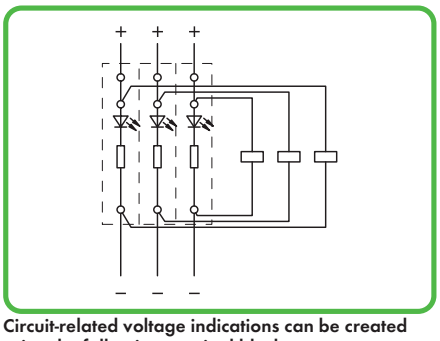
Circuit Configuration Examples
Diode Terminal Blocks and LED Terminal Blocks



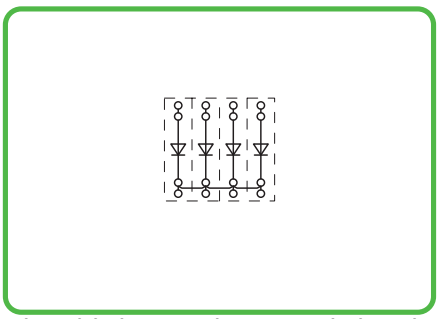
Open diode gates can be created using the following terminal blocks:
279-915/281-410 or
279-915/281-411



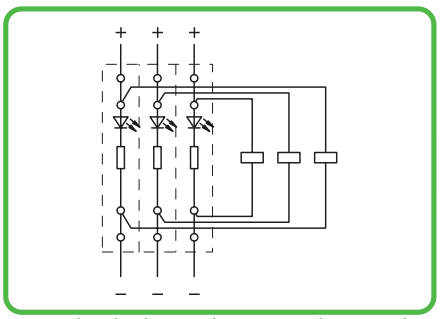
Polarized diode gates with common cathode can be created using the following terminal blocks:
279-673/281-410 or
279-673/281-411



Circuit-related voltage indications can be created using the following terminal blocks:
279-674/281-434 or
279-674/281-413



Polarized diode gates with common cathode can be created using the following terminal blocks:
279-815/281-410 or
279-815/281-411



Circuit-related voltage indications can be created using the following terminal blocks:
279-809/281-434 or
279-809/281-413

❶ Strip length, see packaging or instructions.

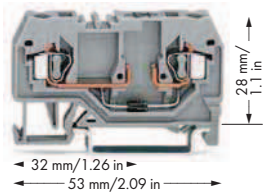
279 Series Accessories

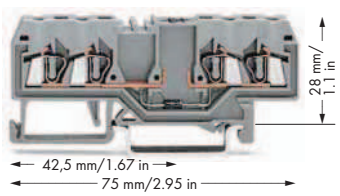
Appropriate marking system:
WMB (see Section 13)

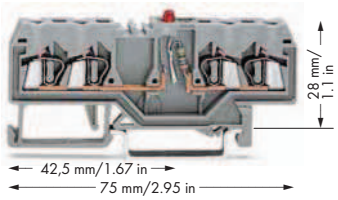
Insulation stop,			
	5 pcs/strip,		
	0.08 - 0.2 mm² "s" (0.14 mm² "f-st")		
	white	**279-470**	200 (8x25)
Insulation stop,			
	5 pcs/strip,		
	0.25 mm²		
	dark gray	**279-471**	200 (8x25)
Comb-style jumper bar, insulated,			
	I_N = I_N terminal block		
	2-way	**279-482**	200 (8x25)
	3-way	**279-483**	200 (8x25)
Comb-style jumper bar, insulated,			
	I_N = I_N terminal block		
	10-way	**279-490**	50 (2x25)
Alternate comb-style jumper bar,			
	insulated,		
	I_N = I_N terminal block		
	2-way	**279-492**	200 (8x25)
Operating tool, of insulating material			
	2-way	**279-432**	1
	3-way	**279-433**	1
Operating tool, of insulating material			
	10-way	**279-440**	1

Diode Terminal Blocks and LED Terminal Blocks 2.5 mm²
280 Series

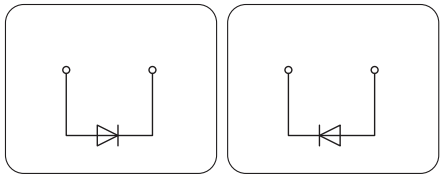
0.08 - 2.5 mm² | AWG 28 - 14 U_N 250 V, U_{RM} 1000 V 1N4007 - 0.5 A continuous current Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❶	0.08 - 2.5 mm² | AWG 28 - 14 U_N 250 V, U_{RM} 1000 V 1N4007 - 0.5 A continuous current Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❶	0.08 - 2.5 mm² | AWG 28 - 14 24 VDC I_F 0.025 A max. Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in ❶



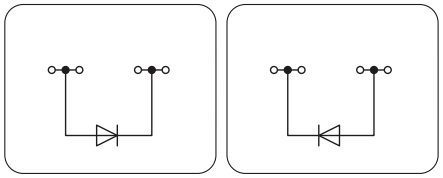




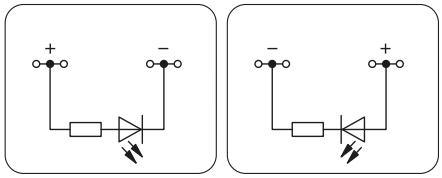
Circuit I Circuit II



Circuit I Circuit II



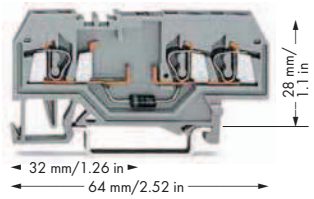
Circuit I Circuit II



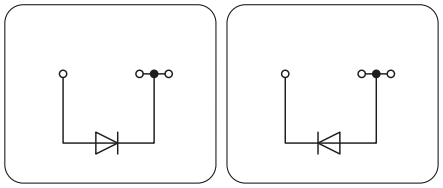
	Item No.	Pack. Unit
2-conductor diode terminal block with 1N4007		
diode, gray		
Circuit I	**280-915/281-410**	100
Circuit II	**280-915/281-411**	100

	Item No.	Pack. Unit
4-conductor diode terminal block with 1N4007		
diode, gray		
Circuit I	**280-815/281-410**	100
Circuit II	**280-815/281-411**	100

	Item No.	Pack. Unit
4-conductor LED terminal block with red LED,		
24 VDC, gray		
Circuit I	**280-809/281-434**	100
Circuit II	**280-809/281-413**	100



Circuit I Circuit II



	Item No.	Pack. Unit
Through terminal blocks with same profile,		
see page 164		

	Item No.	Pack. Unit
3-conductor diode terminal block with 1N4007		
diode, gray		
Circuit I	**280-673/281-410**	100
Circuit II	**280-673/281-411**	100

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