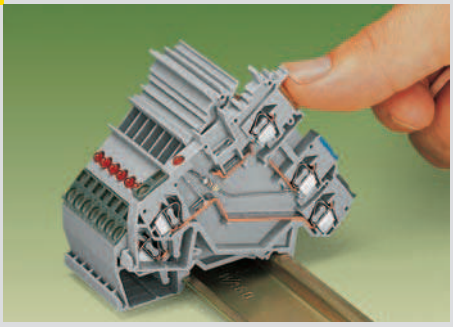
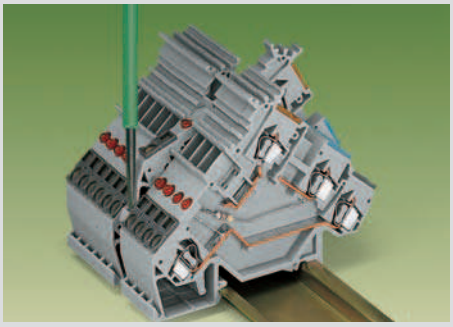
Sensor Terminal Blocks and Actuator Terminal Blocks with CAGE CLAMP® . . . Series 280

Assembly

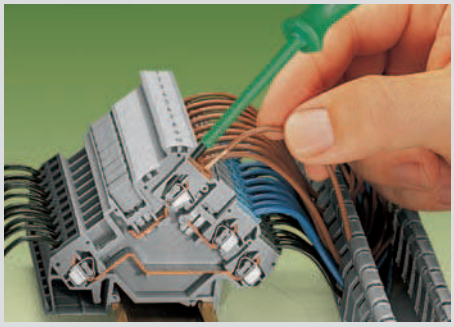


Assembly on the carrier rail. Terminal blocks with ground (earth) connection automatically establish a direct contact to the rail.



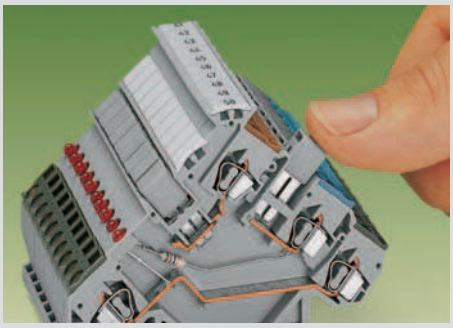
Removal from the carrier rail.
Attention - remove jumper contacts first!

CAGE CLAMP® connection

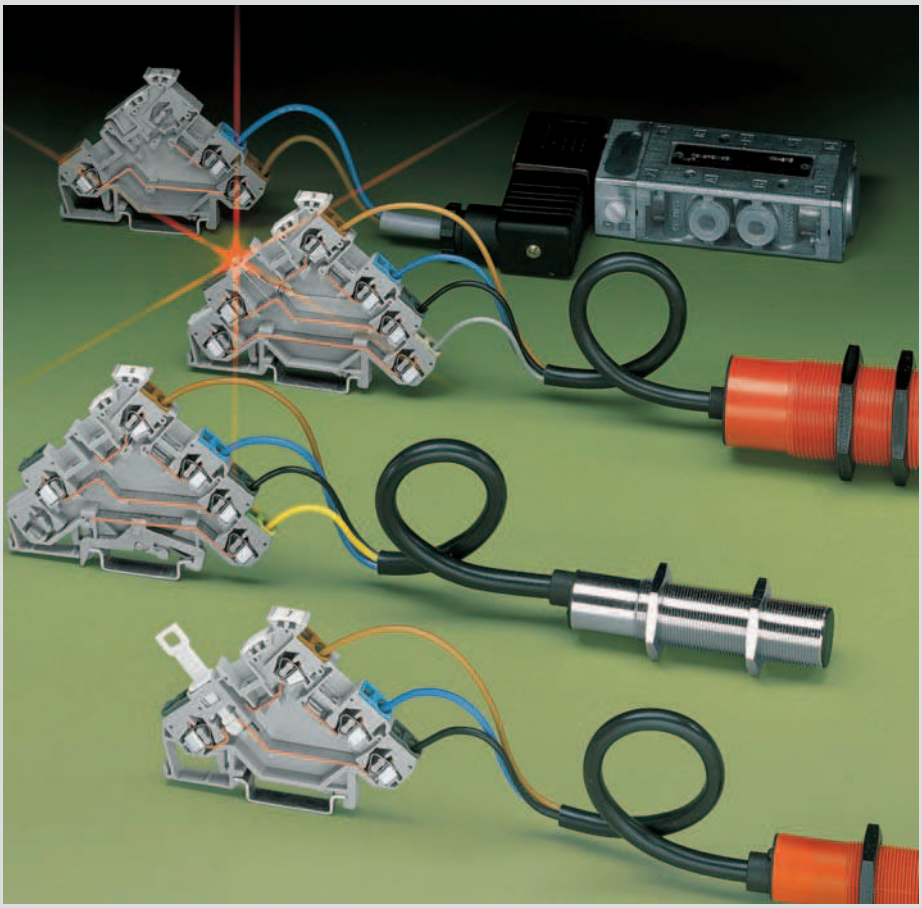


Connection of conductors with straight screw-driver 210-120

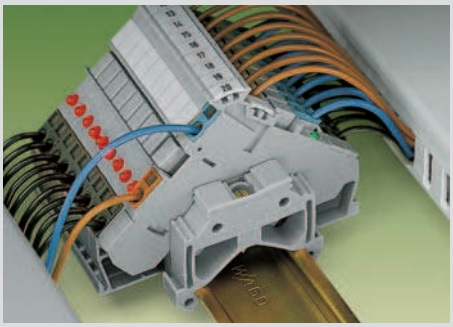
Commoning



Commoning with adjacent jumpers. Push jumper down FIRMLY until FULLY inserted!

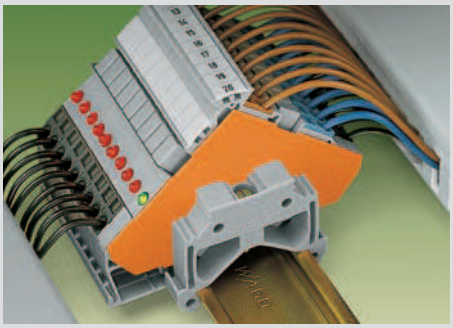


Voltage supply to assembly

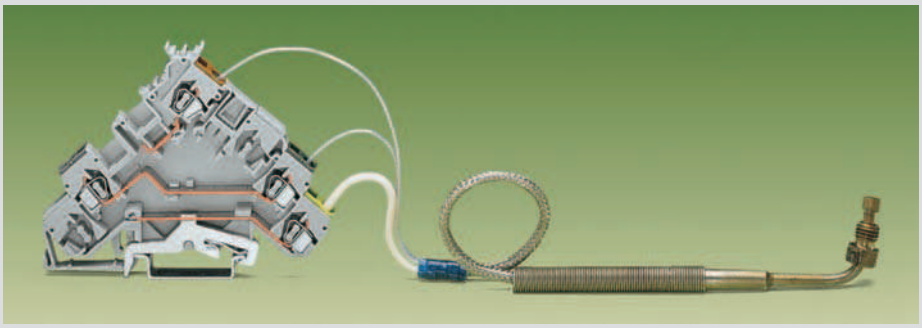


Sensor terminal blocks.
Voltage supply from control panel side

Voltage supply to assembly



Sensor terminal blocks.
Voltage supply from sensor side



Actuator terminal blocks and a thermocouple and shield (screen) connection



CAGE CLAMP® clamps the following copper wires:*

solid

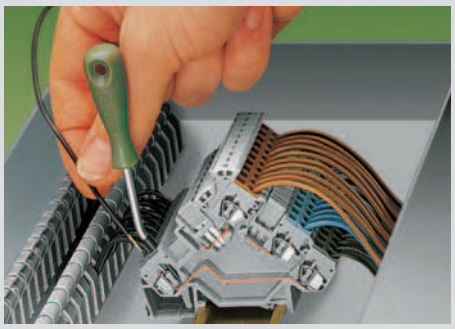


stranded



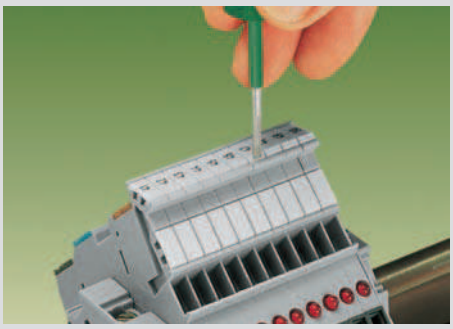
fine stranded, also with tinned single strands

* For aluminum wire see notes in section 15!



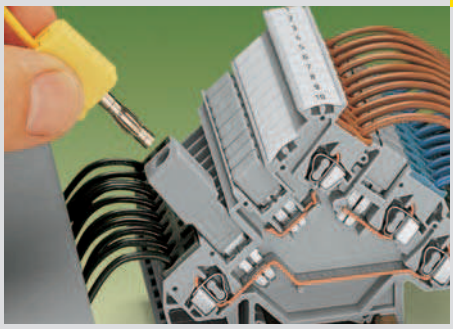
Connection of conductors with angled screwdriver 210-258

Marking

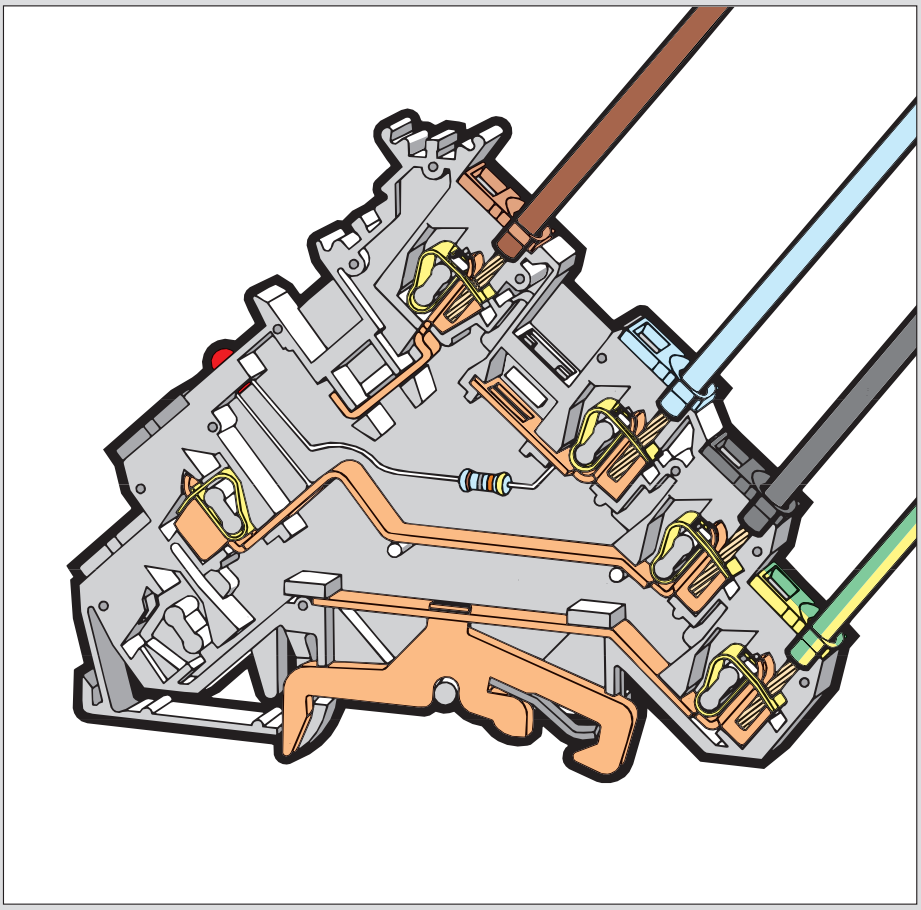


Marking with WMB Multi marking system or WSB Quick marking system.
For other systems see section 14.

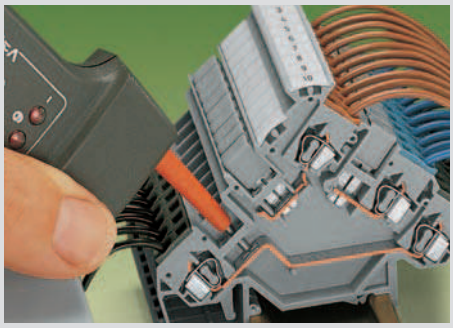
Testing



Testing with banana plug and adapter 209-170



Testing

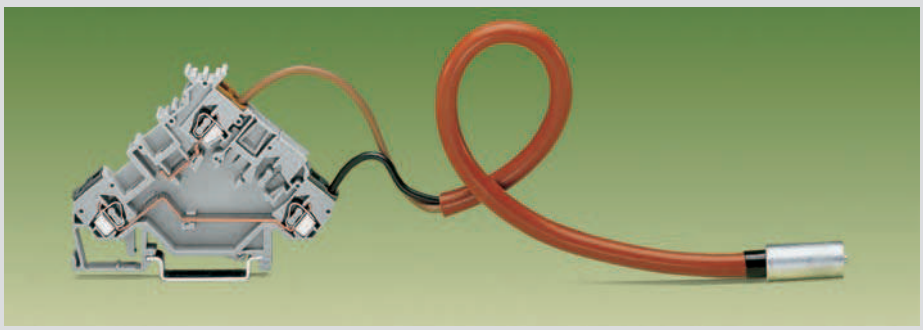


Testing with voltage tester directly on the current bar

Fuse plugs

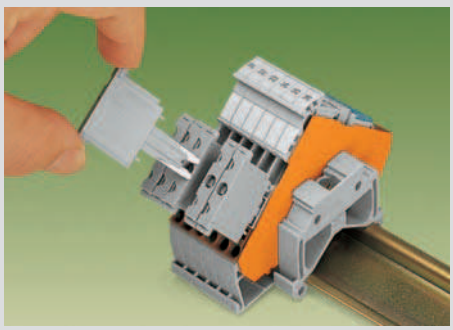


Actuator terminal blocks with fuse plugs 281-511 (requires additional intermediate plates)



Actuator terminal block with thermocouple

Component plugs



Actuator terminal blocks with component plugs 280-801



fine-stranded wire – tip bonded



fine-stranded wire with crimped ferrule ❶

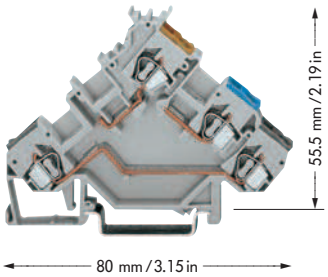


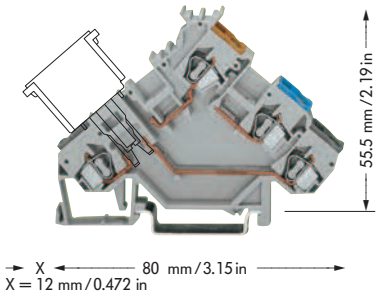
fine-stranded wire with crimped pin terminal

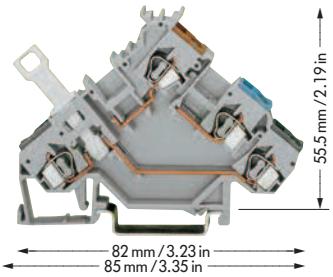
❶ When using wires with ferrules, it is necessary to use a terminal block one size larger than the nominal cross section of the wire.

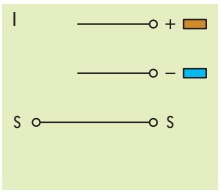
Sensor Terminal Blocks 2.5 mm² /AWG 12, for 3-Conductor Sensors Series 280

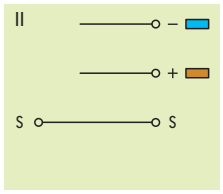
0.08 – 2.5 mm² 400 V/6 kV/3 ❶ 20 A	AWG 28 – 12 300 V, 15 A 300 V, 15 A	0.08 – 2.5 mm² 250 V/4 kV/3 ❶ ❷ 6 A ❷	AWG 28 – 12 300 V, 6 A 300 V, 15 A	0.08 – 2.5 mm² 400 V/6 kV/3 ❶ 10 A	AWG 28 – 12 300 V, 10 A 300 V, 15 A
Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in * BV		Terminal block width 5 mm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

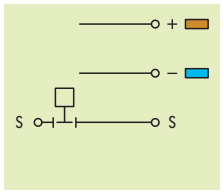


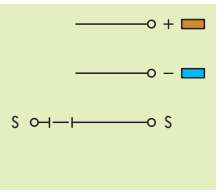










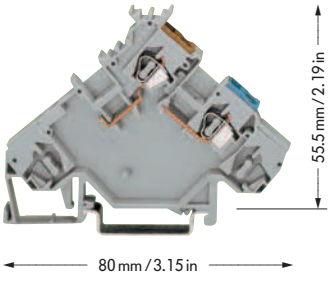


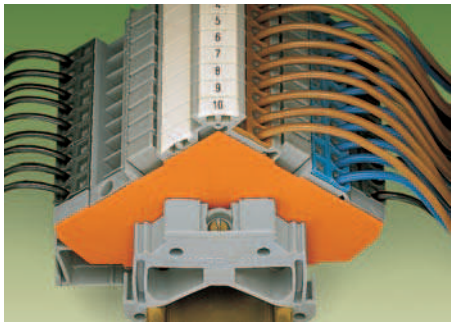
Item No.	Pack. unit pcs
Sensor terminal blocks	
I **280-560**	50
II **280-553**	50

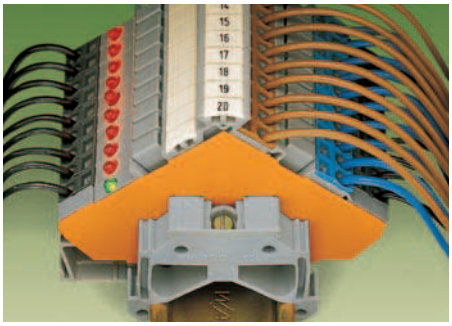
Item No.	Pack. unit pcs
Sensor terminal block, for component plugs	
280-561	50
Empty component plug housing see W4, volume 3	
Fuse plug see page 7.35	

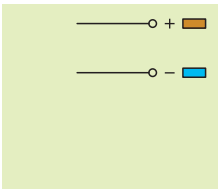
Item No.	Pack. unit pcs
Sensor disconnect terminal block, for signal interruption	
280-563	50

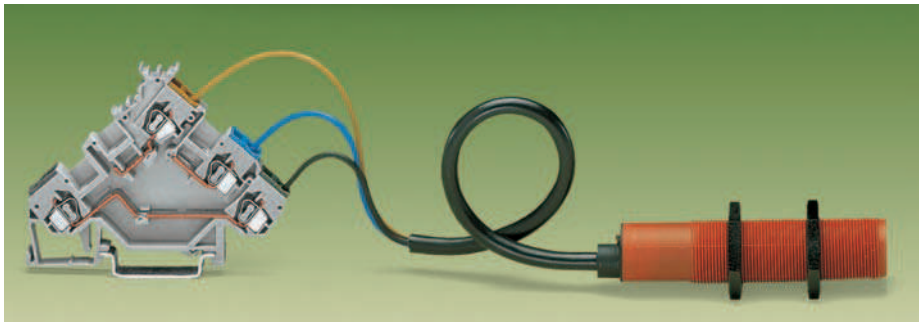
Appropriate marking system **WMB/WSB** (see section 14)











Sensor terminal block, with 3-conductor sensor

Item No.	Pack. unit pcs
Sensor supply terminal block, voltage supply from sensor side	
280-564	10

Accessories Series 280

End and intermediate plate, 1 mm/0.039 in thick



for triple deck terminal blocks		
orange	**280-321**	100 (4 x 25)
grey	**280-319**	100 (4 x 25)

Insulation stop, 5 pcs/strip see page 2.43



white	**280-470**	200 strips
light grey	**280-471**	200 strips
dark grey	**280-472**	200 strips

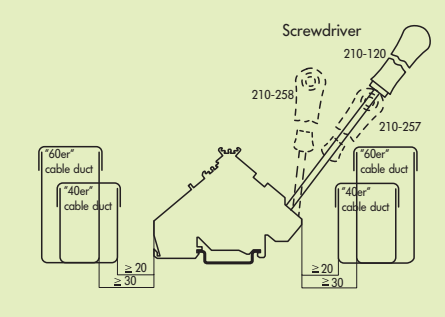
Adjacent jumper, insulated, I_N 24 A



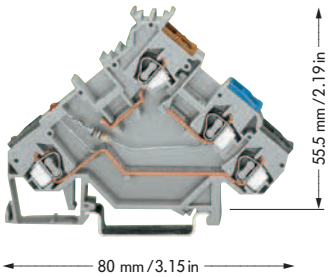
grey	**280-402**	200 (8 x 25)

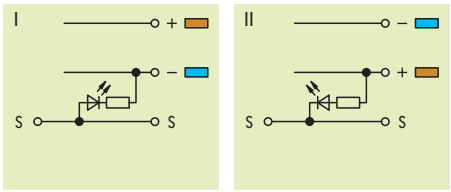
*For further approvals with corresponding ratings see section 15.

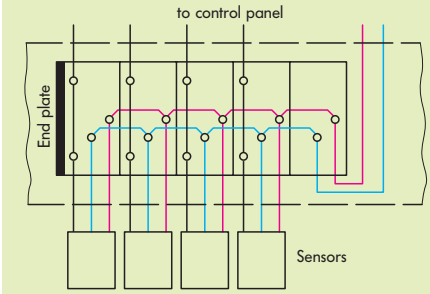
0.08 – 2.5 mm² / 400 V/6 kV/3 ❶ / 20 A	AWG 28 – 12 / 300 V, 15 A / 300 V, 15 A	0.08 – 2.5 mm² / DC 24 V ❸ / 20 A	AWG 28 – 12 / 24 V, 15 A / 300 V, 15 A	Spacer
Terminal block width with end plate 6 mm / 0.236 in		Terminal block width 5 mm / 0.197 in		Spacer width 5 mm / 0.197 in
8 – 9 mm / 0.33 in		8 – 9 mm / 0.33 in		
* BV		*		* BV



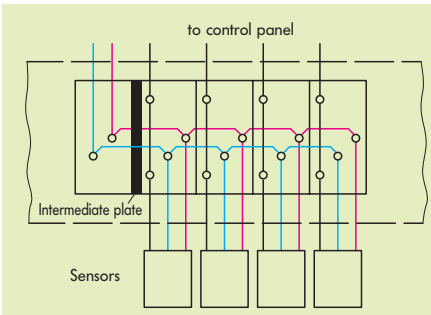
Min. mounting distance – terminal blocks to cable duct







Voltage supply from sensor side



Voltage supply from control panel side

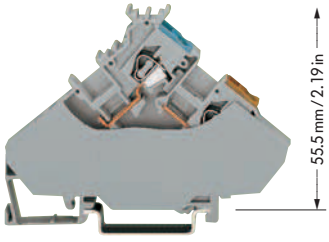
❶ 400/250 V = rated voltage
6/4 kV = rated surge voltage
3 = pollution degree
(see also section 15)

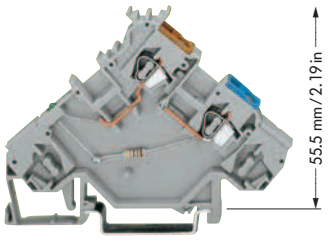
❷ Electrical ratings are given by the fuse or components used in the component plug (see also page 7.35 and Full Line Catalog W4, volume 3)

❸ Other voltages – contact factory

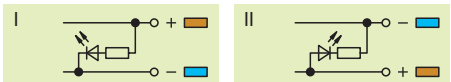
❹ Power consumption LED: 4.8 mA

	Item No.	Pack. unit pcs
Sensor-LED terminal blocks,		
DC 24 V, for PNP (positive) switching sensors		
I LED red ❹	**280-560/281-434**	50
DC 24 V, for NPN (negative) switching sensors		
II LED red ❹	**280-561/281-413**	50









	Item No.	Pack. unit pcs
Sensor supply terminal block,		
voltage supply from control panel side,		
with end plate	**280-567**	20

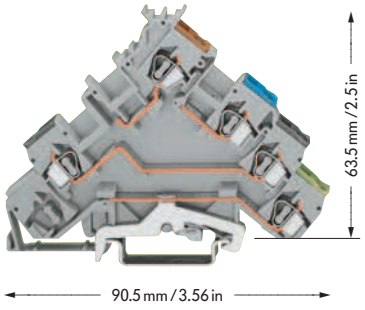
	Item No.	Pack. unit pcs
Sensor-LED supply terminal blocks,		
voltage supply from sensor side,		
DC 24 V, for PNP (positive) switching sensors		
I LED green ❹	**280-564/281-483**	10
voltage supply from sensor side,		
DC 24 V, for NPN (negative) switching sensors		
II LED green ❹	**280-566/281-496**	10

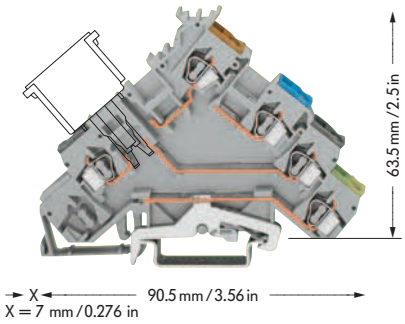
	Item No.	Pack. unit pcs
Spacer, same shape as 3-conductor sensor or actuator terminal blocks	**280-559**	50

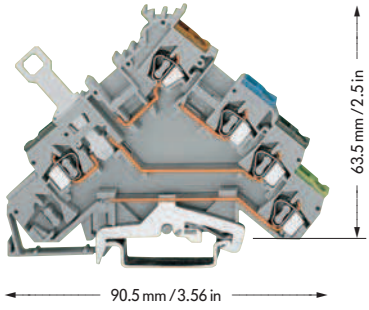
Spacers allow clear separation of groups of sensors or actuators, especially if they are supplied from different voltage sources.

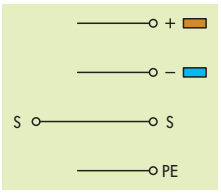
Sensor Terminal Blocks 2.5 mm² /AWG 12, for 3-Conductor Sensors with Ground (Earth) Connection Series 280

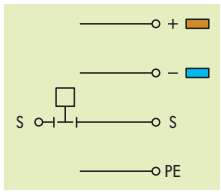
0.08 – 2.5 mm² / AWG 28 – 12 400 V/6 kV/3 ❶ / 300 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in) 8 – 9 mm / 0.33 in * BV	0.08 – 2.5 mm² / AWG 28 – 12 250 V/4 kV/3 ❶ ❷ / 300 V, 6 A 6 A ❷ / 300 V, 15 A Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in * BV	0.08 – 2.5 mm² / AWG 28 – 12 400 V/6 kV/3 ❶ / 300 V, 10 A 10 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in *

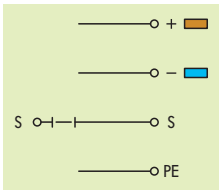






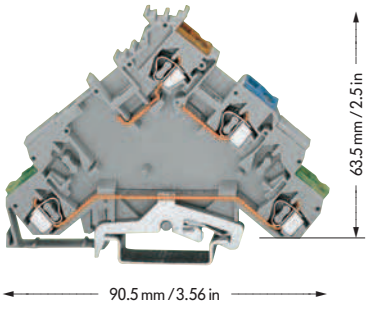


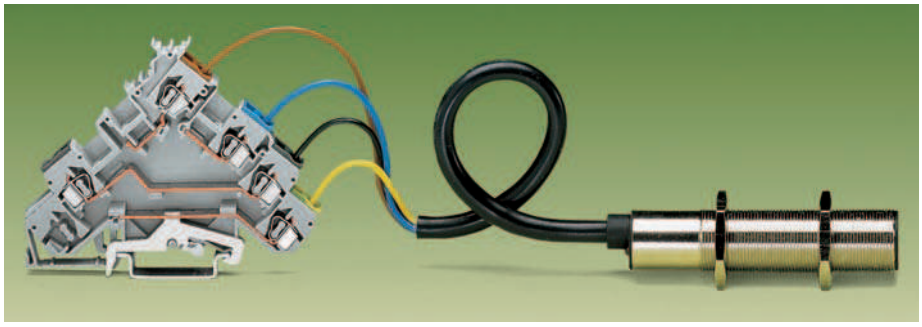




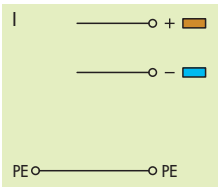
Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
Sensor terminal block with ground (earth) connection		**Sensor terminal block with ground (earth) connection,** for component plugs		**Sensor disconnect terminal block with ground (earth) connection,** plus signal interruption	
280-570	50	**280-571**	50	**280-573**	50
		Empty component plug housing see W4, volume 3			
		Fuse plug see page 7.35			

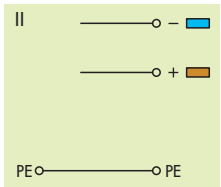
Appropriate marking system **WMB/WSB** (see section 14)





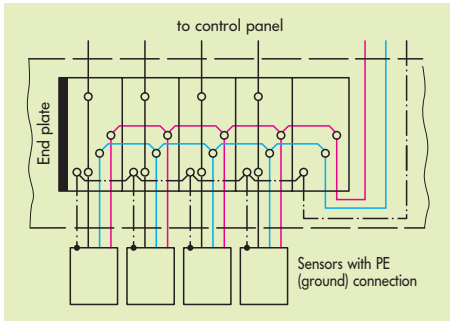
Sensor terminal block, with 3-conductor sensor with ground (earth) connection



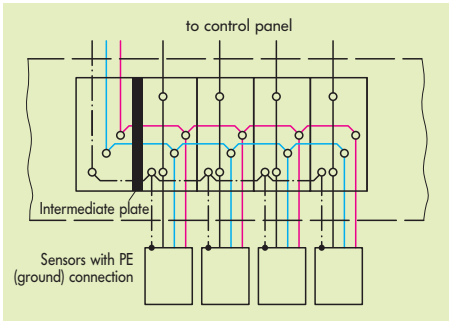


Item No.	Pack. unit pcs
Sensor supply terminal block with ground (earth) connection, voltage supply from sensor side	
280-574	10
Sensor supply terminal block with ground (earth) connection, voltage supply from control panel side, with end plate **280-577**	20

Accessories see page 7.51
Insulation stop and jumper



Voltage supply from sensor side



Voltage supply from control panel side

❶ 400/250 V= rated voltage
6/4 kV = rated surge voltage
3 = pollution degree
(see also section 15)

❷ Electrical ratings are given by the fuse or components used in the component plug (see also page 7.35 and Full Line Catalog W4, volume 3)

❸ Other voltages – contact factory

❹ Power consumption LED: 4.8 mA

*For further approvals with corresponding ratings see section 15.

Sensor Terminal Blocks 2.5 mm² /AWG 12, for 4-Conductor Sensors Series 280

0.08 – 2.5 mm²	AWG 28 – 12
DC 24 V ❸	24 V, 15 A
20 A	300 V, 15 A

Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)

8 – 9 mm / 0.33 in

* UL CSA N

0.08 – 2.5 mm²	AWG 28 – 12
400 V/6 kV/3 ❶	300 V, 15 A
20 A	300 V, 15 A

Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)

8 – 9 mm / 0.33 in

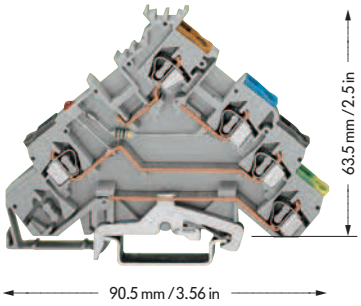
* UL CSA N BV

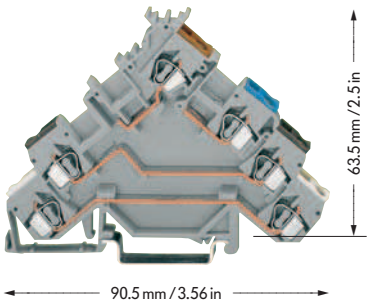
0.08 – 2.5 mm²	AWG 28 – 12
DC 24 V ❸	24 V, 15 A
20 A	300 V, 15 A

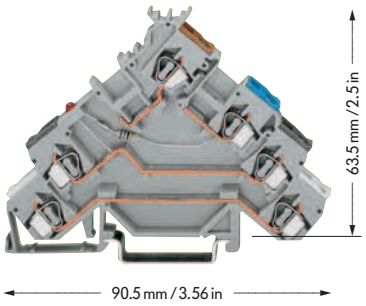
Terminal block width 5 mm / 0.197 in

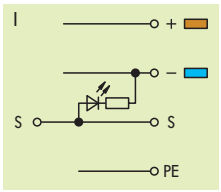
8 – 9 mm / 0.33 in

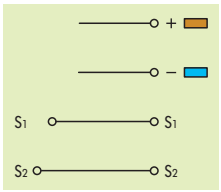
* UL CSA N

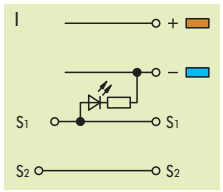








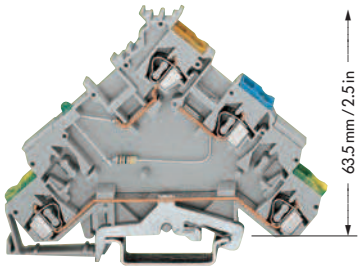


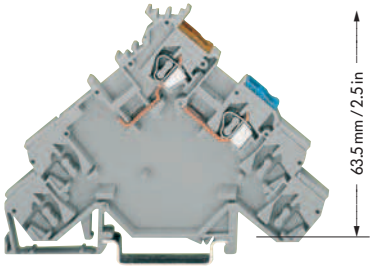


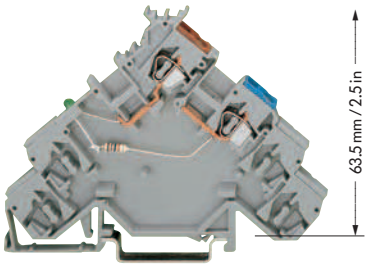
Item No.	Pack. unit pcs
Sensor-LED terminal blocks,	
DC 24 V, for PNP (positive) switching sensors	
I LED red ❹ **280-570/281-434**	50
DC 24 V, for NPN (negative) switching sensors	
II LED red ❹ **280-571/281-413**	50

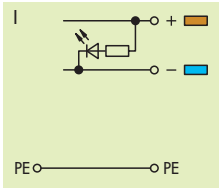
Item No.	Pack. unit pcs
Sensor terminal block	
280-580	50
End and intermediate plate, 1 mm/0.039 in thick	
for quadruple deck terminal blocks	
orange **280-323** 100 (4 x 25)	
grey **280-320** 100 (4 x 25)	

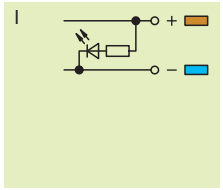
Item No.	Pack. unit pcs
Sensor LED terminal blocks,	
DC 24 V, for PNP (positive) switching sensors	
I LED red ❹ **280-580/281-434**	50
DC 24 V, for NPN (negative) switching sensors	
II LED red ❹ **280-581/281-413**	50











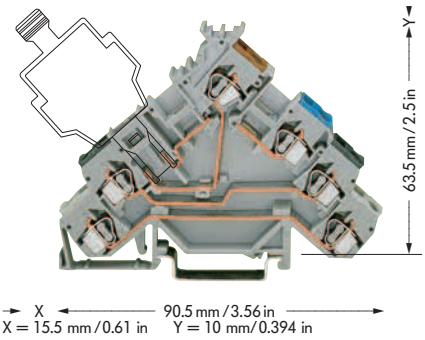
Item No.	Pack. unit pcs
Sensor-LED supply terminal blocks with ground	
(**earth**) **connection,** voltage supply from sensor side,	
DC 24 V, for PNP (positive) switching sensors	
I LED green ❹ **280-574/281-483**	10
DC 24 V, for NPN (negative) switching sensors	
II LED green ❹ **280-576/281-496**	10
Voltage supply from control panel side,	
DC 24 V, for PNP (positive) switching sensors	
I LED green ❹	
with end plate **280-577/281-496**	20

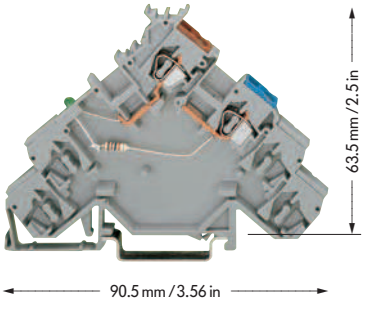
Item No.	Pack. unit pcs
Sensor supply terminal blocks,	
voltage supply from sensor side,	
without end plate **280-584**	10
voltage supply from control panel side,	
with end plate **280-587**	20

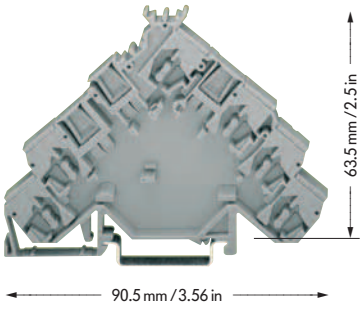
Item No.	Pack. unit pcs
Sensor LED supply terminal blocks,	
voltage supply from sensor side,	
DC 24 V, for PNP (positive) switching sensors	
I LED green ❹ **280-584/281-483**	10
DC 24 V, for NPN (negative) switching sensors	
II LED green ❹ **280-586/281-496**	10

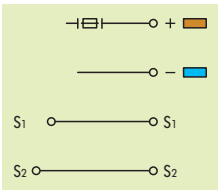
Sensor Terminal Blocks 2.5 mm² /AWG 12, for Fuse Plugs for 3- and 4-Conductor Sensors Series 280

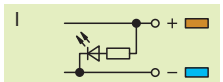
0.08 – 2.5 mm² / 125 V/5 A ❶	AWG 28 – 12 / 250 V; 6,3 A / 300 V, 15 A	0.08 – 2.5 mm² / DC 24 V ❷ / 20 A	AWG 28 – 12 / 300/24 V, 15 A / 300 V, 15 A	Spacer
Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		Spacer width 5 mm / 0.197 in
8 – 9 mm / 0.33 in		8 – 9 mm / 0.33 in		
* BV		* BV		* BV









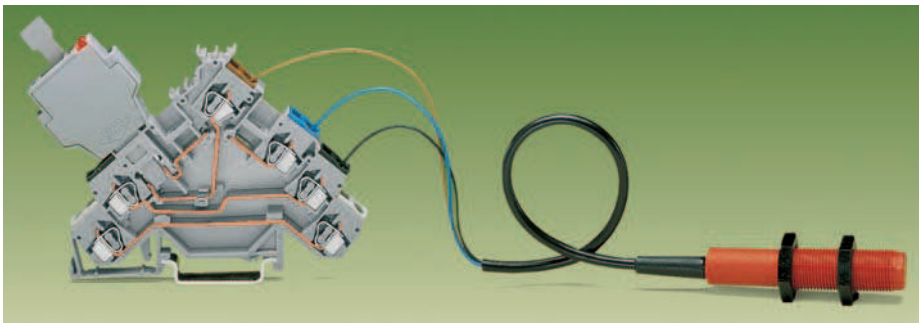




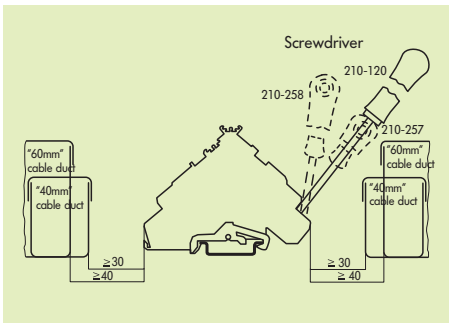
	Item No.	Pack. unit pcs
Sensor terminal blocks, for fuse plugs, for PNP (positive) switching sensors		
without end plate	**280-588**	50
with end plate		
grey	**280-588/280-320**	50
orange	**280-588/280-323**	50

	Item No.	Pack. unit pcs
Sensor-LED supply terminal block, voltage supply from sensor side, DC 24 V, for PNP (positive) switching sensors		
I LED green ❸	**280-584/281-483**	10
Sensor supply terminal block, (see ill. page 7.49) voltage supply from sensor side,		
II 300 V	**280-584**	10
Sensor supply terminal block, (see ill. page 7.49) voltage supply from control panel side,		
II with end plate	**280-587**	20

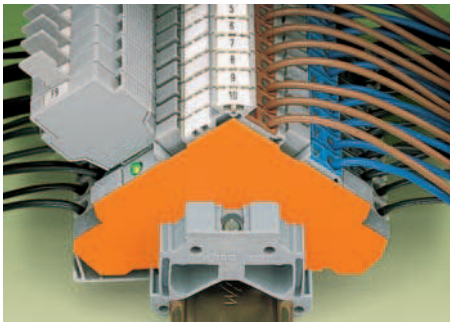
	Item No.	Pack. unit pcs
Spacer, same shape as 4-conductor sensor terminal blocks, 3-conductor sensor terminal blocks with ground (earth) connection or the corresponding actuator terminal blocks	**280-582**	50



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

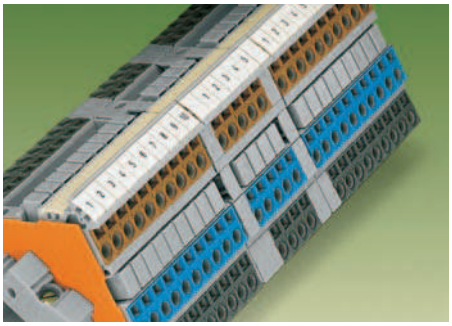


Min. mounting distance – terminal blocks to cable duct



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

❶ Electrical ratings are given by the fuse or components used in the component plug (see also pages 7.34 and 7.35 Full Line Catalog W4, volume 3)
❷ Other voltages – contact factory
❸ Power consumption LED: 4.8 mA



Spacers allow clear separation of groups of sensors or actuators, especially if they are supplied from different voltage sources.

Accessories see page 7.51
Insulation stop and jumper
Appropriate marking system **WMB/WSB** (see section 14)

*For further approvals with corresponding ratings see section 15.

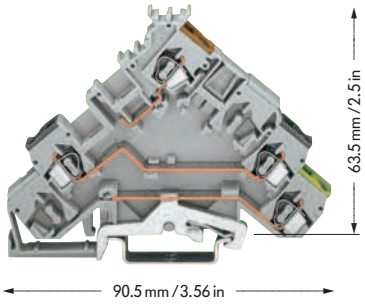
Actuator Terminal Blocks 2.5 mm² / AWG 12, for Actuators with Shield (Screen) Connection and for Actuators with Shield (Screen) Conductor Through Contact (for Thermocouples etc.) Series 280

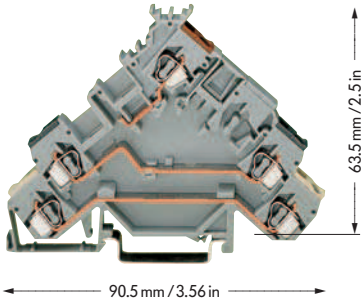
0.08 – 2.5 mm²	AWG 28 – 12
400 V/6 kV/3 ❶	300 V, 15 A
20 A	300 V, 15 A

Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)

8 – 9 mm / 0.33 in

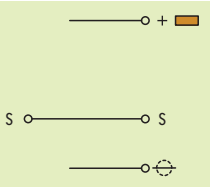
* BV

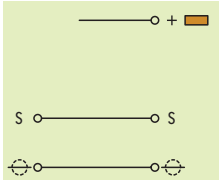






Green-yellow clamping unit = shield (screen) connection

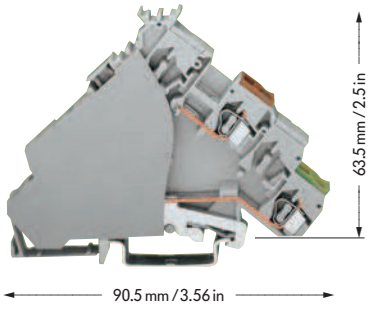


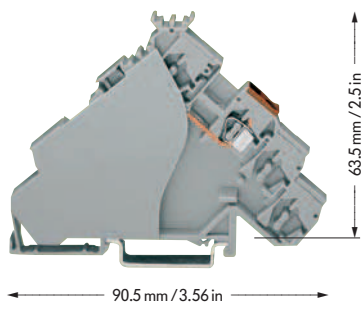


❶ 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(see also section 15)

Item No.	Pack. unit pcs
Actuator terminal block with shield (screen) connection	
280-585	50

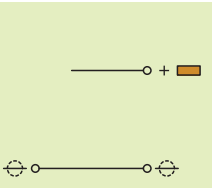
Item No.	Pack. unit pcs
Actuator terminal block with shield (screen) conductor through contact	
280-583	50







White clamping unit = shield (screen) conductor through contact



Item No.	Pack. unit pcs
Actuator supply terminal block with shield (screen) connection, voltage supply from control panel side, with end plate **280-586**	20

Item No.	Pack. unit pcs
Actuator supply terminal block, voltage supply from control panel side, with end plate **280-515**	20

Accessories Series 280

Appropriate marking system **WMB/WSB** (see section 14)

End and intermediate plate, 1 mm/0.039 in thick



for quadruple deck terminal blocks
orange **280-323** 100 (4 x 25)
grey **280-320** 100 (4 x 25)

Insulation stop, 5 pcs/strip see page 2.43



white **280-470** 200 strips
light grey **280-471** 200 strips
dark grey **280-472** 200 strips

Adjacent jumper, insulated, I_N 24 A

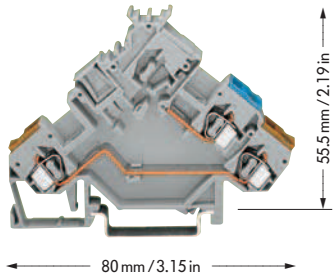


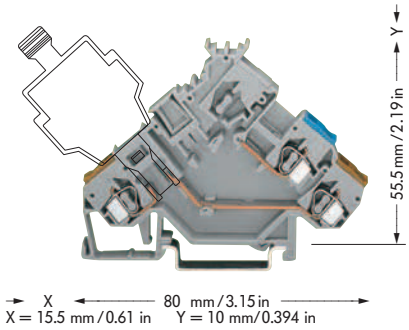
grey **280-402** 200 (8 x 25)

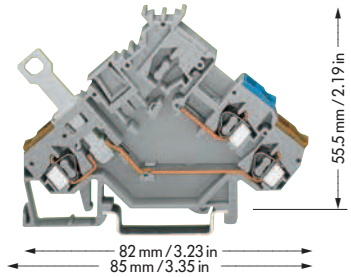
* For further approvals with corresponding ratings see section 15.

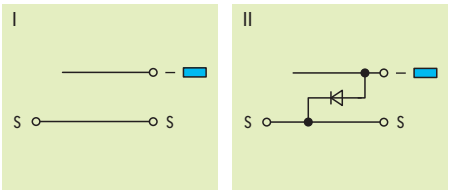
Actuator Terminal Blocks 2.5 mm² / AWG 12, (for Pressure Switches, Thermocouples etc.) Series 280

0.08 – 2.5 mm² 400 V/6 kV/3, 20 A ❶ 250 V/4 kV/3, 20 A ❶ ❷	AWG 28 – 12 300 V, 15 A 300 V, 15 A	0.08 – 2.5 mm² 125 V/5 A ❸ 250 V/6.3 A ❸	AWG 28 – 12 250 V; 6.3 A 300 V, 15 A	0.08 – 2.5 mm² 400 V/6 kV/3 ❶ 10 A	AWG 28 – 12 300 V, 10 A 300 V, 15 A
Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in *		Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in) 8 – 9 mm / 0.33 in * BV		Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in *	







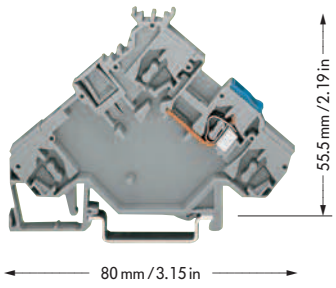


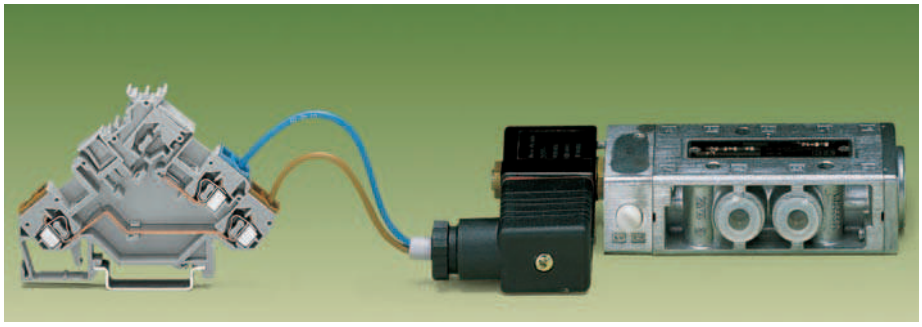
	Item No.	Pack. unit pcs
Actuator terminal block		
I	**280-562**	50
Actuator terminal block,		
with recovery diode 1 N 4007 ❷		
II	**280-562/281-411**	50

	Item No.	Pack. unit pcs
Actuator terminal blocks, for fuse plugs ❹,		
for fuse protection of line voltage,		
without end plate	**280-565**	50
with end plate		
grey	**280-565/280-319**	50
orange	**280-565/280-321**	50

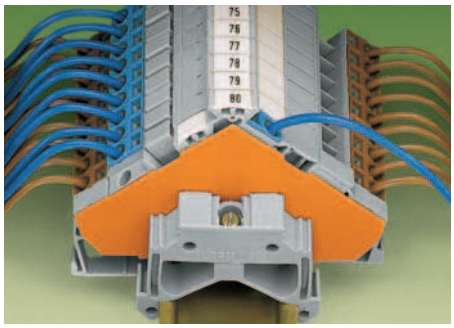
	Item No.	Pack. unit pcs
Actuator disconnect terminal block,		
for interruption of line		
	280-566	50

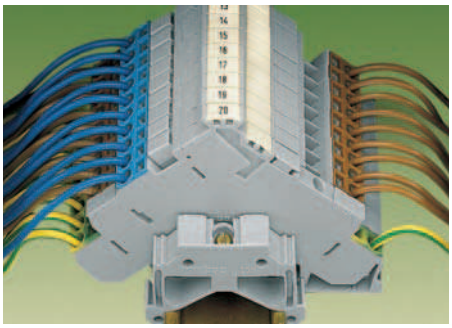
Appropriate marking system **WMB/WSB** (see section 14)





Actuator terminal block, here with a magnetic valve



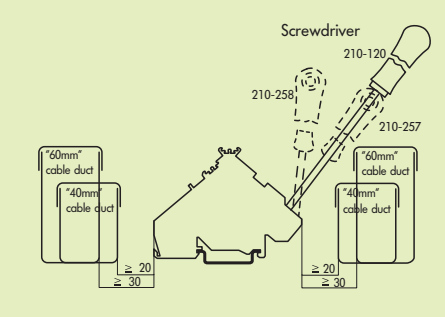


	Item No.	Pack. unit pcs
Actuator supply terminal block,		
voltage supply from actuator side		
	280-592	10

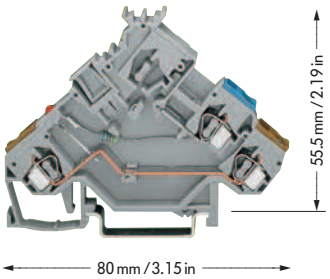
Accessories see page 7.53
Insulation stop and jumper

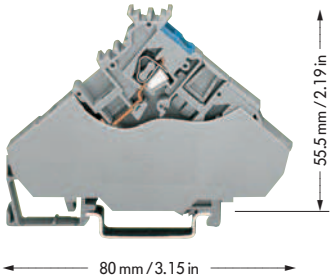
* For further approvals with corresponding ratings see section 15.

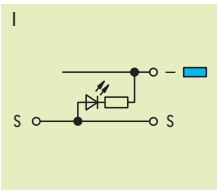
	0.08 – 2.5 mm² / AWG 28 – 12 DC 24 V ❺ / 24 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in *	0.08 – 2.5 mm² / AWG 28 – 12 400 V/6 kV/3 ❶ / 300 V, 15 A 20 A / 300 V, 15 A Terminal block width with end plate 6 mm / 0.236 in 8 – 9 mm / 0.33 in *

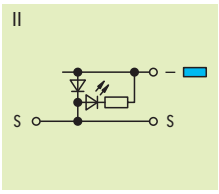


Min. mounting distance – terminal blocks to cable duct



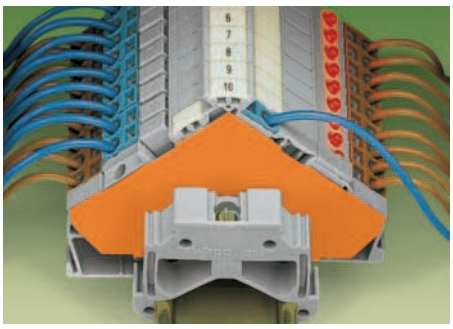






	Item No.	Pack. unit pcs
Actuator LED terminal block, DC 24 V		
I LED red ❻	**280-562/281-434**	50
Actuator LED terminal block, DC 24 V, with recovery diode 1 N 4007		
II LED red ❻	**280-562/281-420**	50

	Item No.	Pack. unit pcs
Actuator supply terminal block, voltage supply from control panel side, with end plate	**280-568**	20



❶ 400/250 V= rated voltage
6/4 kV = rated surge voltage
3 = pollution degree
(see also section 15)

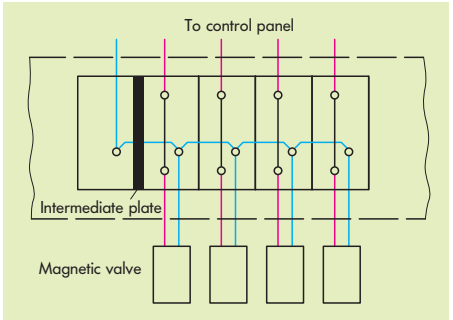
❷ with recovery diode

❸ Electrical ratings are given by the fuse or components used in the component plug (see also pages 7.34 and 7.35 and Full Line Catalog W4, volume 3)

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

❺ Other voltages – contact factory

❻ Power consumption LED: 4.8 mA



◀ Voltage supply from control panel side

Accessories Series 280

Appropriate marking system **WMB/WSB** (see section 14)

End and intermediate plate, 1 mm/0.039 in thick



for triple deck terminal blocks		
orange	**280-321**	100 (4 x 25)
grey	**280-319**	100 (4 x 25)

Insulation stop, 5 pcs/strip see page 2.43



white	**280-470**	200 strips
light grey	**280-471**	200 strips
dark grey	**280-472**	200 strips

Adjacent jumper, insulated, I_N 24 A



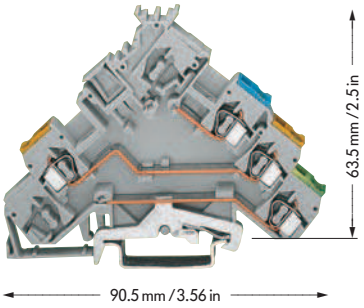
grey	**280-402**	200 (8 x 25)

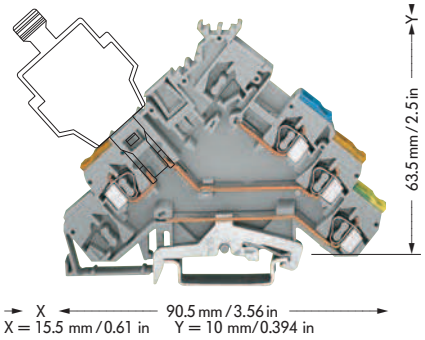
Actuator Terminal Blocks with Ground (Earth) Connection 2.5 mm² / AWG 12, (for Magnetic Valves, Servomotors etc.) Series 280

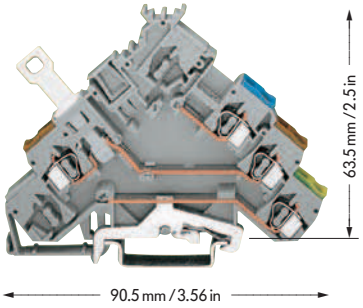
0.08 – 2.5 mm²	AWG 28 – 12	
400 V/6 kV/3, 20 A ❶	300 V, 15 A	
250 V/4 kV/3, 20 A ❶ ❷	300 V, 15 A	
Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		
8 – 9 mm / 0.33 in		
* BV		

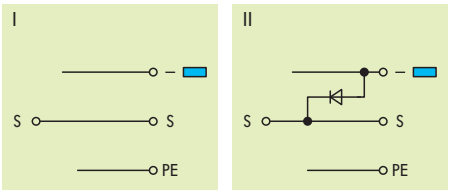
0.08 – 2.5 mm²	AWG 28 – 12	
125 V/5 A ❸	250 V; 6.3 A	
250 V/6.3 A ❸	300 V, 15 A	
Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		
8 – 9 mm / 0.33 in		
*		

0.08 – 2.5 mm²	AWG 28 – 12	
400 V/6 kV/3 ❶	300 V, 10 A	
10 A	300 V, 15 A	
Terminal block width 5 mm / 0.197 in		
8 – 9 mm / 0.33 in		
* BV		





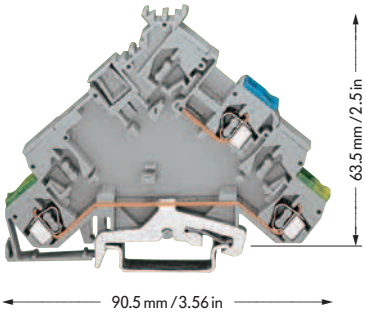


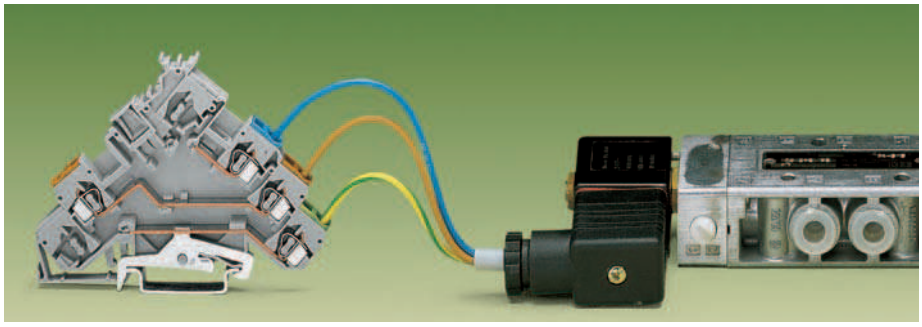


Item No.	Pack. unit pcs
Actuator terminal blocks	
with ground (earth) connection,	
I **280-572**	50
and recovery diode 1 N 4007	
II **280-572/281-411**	50

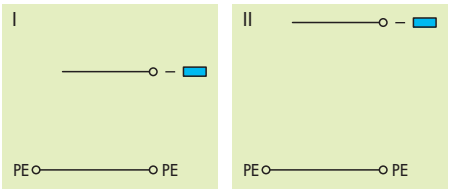
Item No.	Pack. unit pcs
Actuator terminal blocks	
with ground (earth) connection,	
for fuse plugs ❹, for fuse protection of line,	
without end plate **280-575**	50
with end plate	
grey **280-575/280-320**	50
orange **280-575/280-323**	50

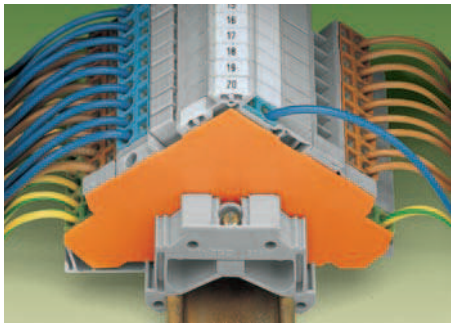
Item No.	Pack. unit pcs
Actuator disconnect terminal block	
with ground (earth) connection,	
for interruption of line	
280-576	50

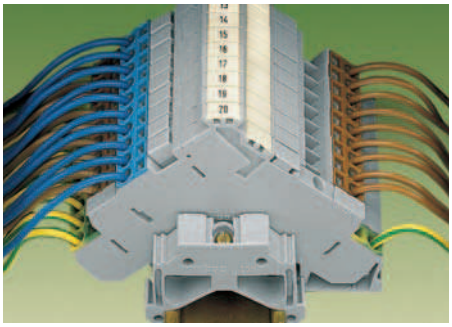




Actuator terminal block, here with a magnetic valve with ground (earth) connection





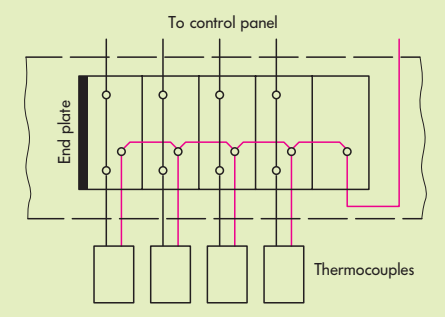


Item No.	Pack. unit pcs
Actuator disconnect terminal blocks	
with ground (earth) connection,	
voltage supply from the actuator side	
I **280-593**	10
voltage supply from the control panel side,	
with end plate	
II **280-578**	20

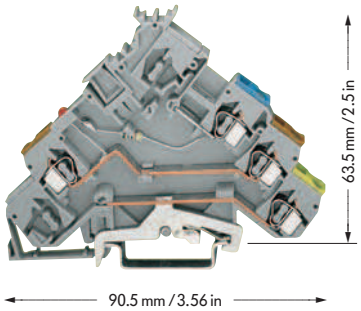
Accessories see page 7.55
Insulation stop and jumper

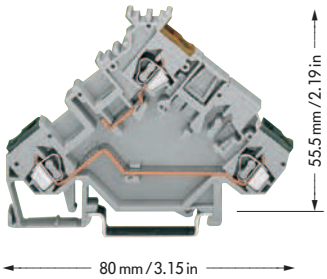
*For further approvals with corresponding ratings see section 15.

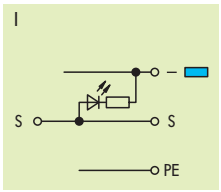
	0.08 – 2.5 mm² / AWG 28 – 12 DC 24 V ❸ / 24 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in * BV	0.08 – 2.5 mm² / AWG 28 – 12 400 V/6 kV/3 ❷ / 300 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in) 8 – 9 mm / 0.33 in * BV

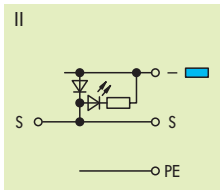


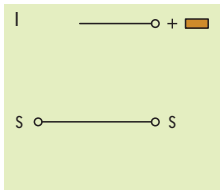
Voltage supply from actuator side

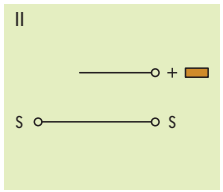








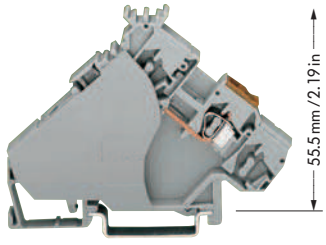




	Item No.	Pack. unit pcs
End and intermediate plate, 1 mm/0.039 in thick		
for triple deck terminal blocks		
orange	**280-321**	100 (4 x 25)
grey	**280-319**	100 (4 x 25)
End and intermediate plate, 1 mm/0.039 in thick		
for quadruple deck terminal blocks		
orange	**280-323**	100 (4 x 25)
grey	**280-320**	100 (4 x 25)
Insulation stop, 5 pcs/strip		see page 2.43
white	**280-470**	200 strips
light grey	**280-471**	200 strips
dark grey	**280-472**	200 strips
Adjacent jumper, insulated, I_N 24 A		
grey	**280-402**	200 (8 x 25)
Appropriate marking system	**WMB/WSB** (see section 14)	

	Item No.	Pack. unit pcs
Actuator LED terminal blocks		
with ground (earth) connection, DC 24 V		
I LED red ❹	**280-572/281-434**	50
with recovery diode 1 N 4007		
II LED red ❹	**280-572/281-420**	50

	Item No.	Pack. unit pcs
Actuator terminal block		
I	**280-555**	50
Actuator terminal block, not shown		
II	**280-554**	50



❶ 400/250 V = rated voltage
6/4 kV = rated surge voltage
3 = pollution degree
(see also section 15)

❷ with recovery diode

❸ Electrical ratings are given by the fuse or components used in the component plug (see also pages 7.34 and 7.35 and Full Line Catalog W4, volume 3)

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

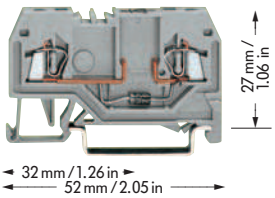
	Item No.	Pack. unit pcs
Actuator supply terminal block, in connection with:		
280-555 → voltage supply from control panel side		
280-554 → voltage supply from actuator side		
with end plate	**280-556**	20

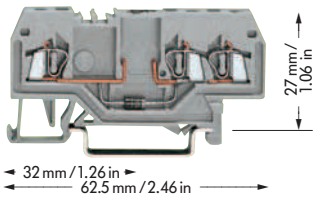
Diode Terminal Blocks 1.5 mm² / AWG 16, Series 279

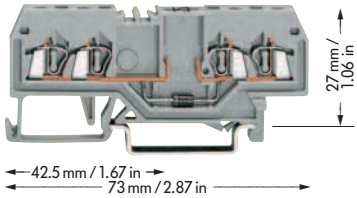
0.08 – 1.5 mm² | AWG 28 – 16
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
Terminal block width 4 mm / 0.157 in
8 – 9 mm / 0.33 in

0.08 – 1.5 mm² | AWG 28 – 16
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
Terminal block width 4 mm / 0.157 in
8 – 9 mm / 0.33 in
* KEMA KEUR CCA KEMA KEUR S CNET BV NV

0.08 – 1.5 mm² | AWG 28 – 16
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
Terminal block width 4 mm / 0.157 in
8 – 9 mm / 0.33 in
* KEMA KEUR CCA KEMA KEUR S CNET BV LR NV







Item No.		Pack. unit pcs
2-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**279-915/281-410**	100
Circuit II, grey	**279-915/281-411**	100
Examples of circuit configuration see page 7.59		
Through terminal block with the same shape		
grey	**279-901**	page 2.8

Item No.		Pack. unit pcs
3-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**279-673/281-410**	100
Circuit II, grey	**279-673/281-411**	100
Examples of circuit configuration see page 7.59		
Through terminal block with the same shape		
grey	**279-681**	page 2.8

Item No.		Pack. unit pcs
4-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**279-815/281-410**	100
Circuit II, grey	**279-815/281-411**	100
Examples of circuit configuration see page 7.59		
Through terminal block with the same shape		
grey	**279-831**	page 2.8

Appropriate marking system **WMB/WSB** (see section 14)
Marker width 4 mm/0.157 in

End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-328**	100 (4 x 25)
grey	**279-325**	100 (4 x 25)

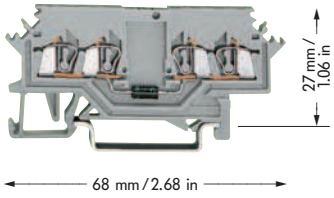


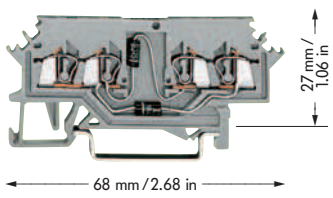
End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-339**	100 (4 x 25)
grey	**279-308**	100 (4 x 25)



End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-346**	100 (4 x 25)
grey	**279-344**	100 (4 x 25)







Item No.		Pack. unit pcs
4-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**279-623/281-410**	100
Circuit II, grey	**279-623/281-411**	100
Examples of circuit configuration see page 7.59		
Through terminal block with the same shape		
grey	**279-621**	page 2.9

Item No.		Pack. unit pcs
4-conductor diode terminal block		
with 2 diodes 1 N 4007		
grey	**279-620/281-408**	100
(for lamp test circuits up to 60 V)		
Through terminal block with the same shape		
grey	**279-621**	page 2.9

Appropriate marking system **WMB/WSB** (see section 14)
Marker width 4 mm/0.157 in

End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-317**	100 (4 x 25)
grey	**279-316**	100 (4 x 25)



End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-317**	100 (4 x 25)
grey	**279-316**	100 (4 x 25)

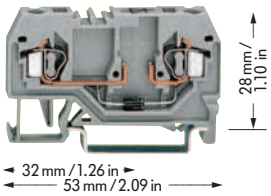


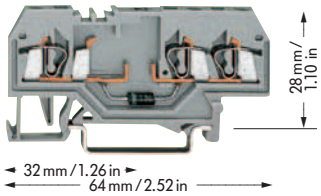
Accessories Series 279, see page 7.59

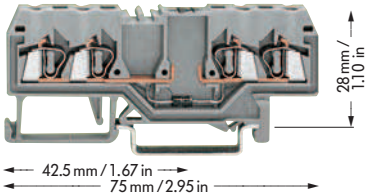
* For further approvals with corresponding ratings see section 15.

Diode Terminal Blocks 2.5 mm² / AWG 12, Series 280

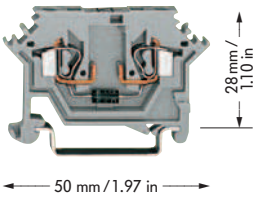
0.08 – 2.5 mm² | AWG 28 – 12 **U_N 250 V; U_{RM} 1000 V** **1 N 4007 – 0.5 A continuous current** **Terminal block width 5 mm / 0.197 in** **8 – 9 mm / 0.33 in** *	**0.08 – 2.5 mm² | AWG 28 – 12** **U_N 250 V; U_{RM} 1000 V** **1 N 4007 – 0.5 A continuous current** **Terminal block width 5 mm / 0.197 in** **8 – 9 mm / 0.33 in** * CCA CNET BV LR NV	**0.08 – 2.5 mm² | AWG 28 – 12** **U_N 250 V; U_{RM} 1000 V** **1 N 4007 – 0.5 A continuous current** **Terminal block width 5 mm / 0.197 in** **8 – 9 mm / 0.33 in** *

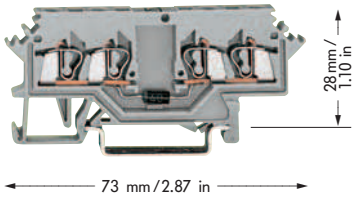


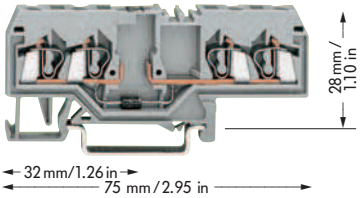




Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-conductor diode terminal blocks with diode 1 N 4007		**3-conductor diode terminal blocks with diode 1 N 4007**		**4-conductor diode terminal blocks with diode 1 N 4007**	
Circuit I, grey **280-915/281-410**	100	Circuit I, grey **280-673/281-410**	100	Circuit I, grey **280-815/281-410**	100
Circuit II, grey **280-915/281-411**	100	Circuit II, grey **280-673/281-411**	100	Circuit II, grey **280-815/281-411**	100
Examples of circuit configuration see page 7.59		Examples of circuit configuration see page 7.59		Examples of circuit configuration see page 7.59	
Through terminal block with the same shape		**Through terminal block with the same shape**		**Through terminal block with the same shape**	
grey **280-901**	page 2.10	grey **280-681**	page 2.10	grey **280-833**	page 2.10
Appropriate marking system **WMB/WSB** (see section 14) Marker width 5 mm/0.197 in					
End and intermediate plate, 2.5 mm/0.098 in thick		**End and intermediate plate,** 2.5 mm/0.098 in thick		**End and intermediate plate,** 2.5 mm/0.098 in thick	
orange **280-309** 100 (4 x 25)		orange **280-326** 100 (4 x 25)		orange **280-315** 100 (4 x 25)	
grey **280-308** 100 (4 x 25)		grey **280-324** 100 (4 x 25)		grey **280-314** 100 (4 x 25)	







Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-conductor diode terminal blocks with diode 1 N 4007		**4-conductor diode terminal blocks with diode 1 N 4007**		**4-conductor diode terminal blocks with diode 1 N 4007**	
Circuit I, grey **280-613/281-410**	100	Circuit I, grey **280-623/281-410**	100	Circuit I, grey **280-655/281-410**	100
Circuit II, grey **280-613/281-411**	100	Circuit II, grey **280-623/281-411**	100	Circuit II, grey **280-655/281-411**	100
Examples of circuit configuration see page 7.59		Examples of circuit configuration see page 7.59		Examples of circuit configuration see page 7.59	
Through terminal block with the same shape		**Through terminal block with the same shape**		**Through terminal block with the same shape**	
grey **280-601**	page 2.12	grey **280-621**	page 2.12	grey **280-633**	page 2.11
Appropriate marking system **WMB/WSB** (see section 14) Marker width 5 mm/0.197 in					
End and intermediate plate, 2.5 mm/0.098 in thick		**End and intermediate plate,** 2.5 mm/0.098 in thick		**End and intermediate plate,** 2.5 mm/0.098 in thick	
orange **280-331** 100 (4 x 25)		orange **280-317** 100 (4 x 25)		orange **280-315** 100 (4 x 25)	
grey **280-330** 100 (4 x 25)		grey **280-316** 100 (4 x 25)		grey **280-314** 100 (4 x 25)	

Accessories Series 280, see page 7.59

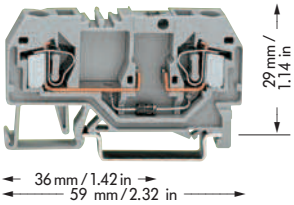
* For further approvals with corresponding ratings see section 15.

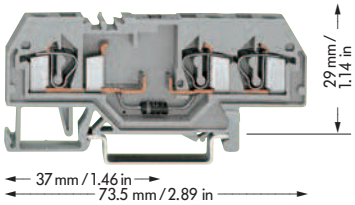
Diode Terminal Blocks 4 mm² / AWG 12 and Variable Resistor Terminal Blocks 2.5 mm² / AWG 12, Series 281 and Series 280

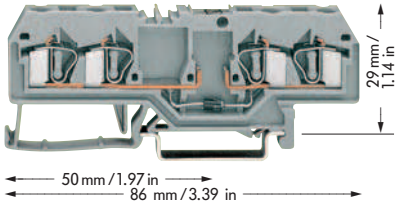
0.08 – 4 mm² | **AWG 28 – 12**
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
1 N 5408 – 1.5 A continuous current
Terminal block width 6 mm / 0.236 in
9 – 10 mm / 0.37 in
* KEMA KEUR CCA KEMA KEUR BV LR NV

0.08 – 4 mm² | **AWG 28 – 12**
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
1 N 5408 – 1.5 A continuous current
Terminal block width 6 mm / 0.236 in
9 – 10 mm / 0.37 in
* KEMA KEUR CCA KEMA KEUR BV LR NV

0.08 – 4 mm² | **AWG 28 – 12**
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
1 N 5408 – 1.5 A continuous current
Terminal block width 6 mm / 0.236 in
9 – 10 mm / 0.37 in
* KEMA KEUR CCA KEMA KEUR BV LR NV







	Item No.	Pack. unit pcs
2-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**281-915/281-410**	50
Circuit II, grey	**281-915/281-411**	50
2-conductor diode terminal blocks		
with diode 1 N 5408		
Circuit I, grey	**281-915/281-400**	50
Circuit II, grey	**281-915/281-401**	50
Through terminal block with the same shape		
grey	**281-901**	page 2.16

	Item No.	Pack. unit pcs
3-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**281-673/281-410**	50
Circuit II, grey	**281-673/281-411**	50
3-conductor diode terminal blocks		
with diode 1 N 5408		
Circuit I, grey	**281-673/281-400**	50
Circuit II, grey	**281-673/281-401**	50
Through terminal block with the same shape		
grey	**281-681**	page 2.16

	Item No.	Pack. unit pcs
4-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**281-665/281-410**	50
Circuit II, grey	**281-665/281-411**	50
4-conductor diode terminal blocks		
with diode 1 N 5408		
Circuit I, grey	**281-665/281-400**	50
Circuit II, grey	**281-665/281-401**	50
Through terminal block with the same shape		
grey	**281-652**	page 2.16

Appropriate marking system **WMB/WSB** (see section 14)
Marker width 5 mm/0.197 in

End and intermediate plate, 2.5 mm/0.098 in thick



orange	**281-329**	100 (4 x 25)
grey	**281-328**	100 (4 x 25)

End and intermediate plate, 2.5 mm/0.098 in thick

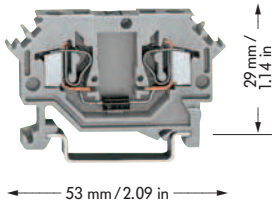


orange	**281-326**	100 (4 x 25)
grey	**281-324**	100 (4 x 25)

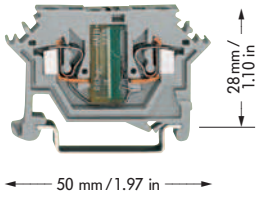
End and intermediate plate, 2.5 mm/0.098 in thick



orange	**281-335**	100 (4 x 25)
grey	**281-334**	100 (4 x 25)



Variable Resistor Terminal Blocks
2.5 mm² / AWG 14,
Series 280



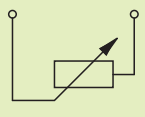
0.08 – 2.5 mm² | **AWG 28 – 14**
250 V

Terminal block width 5 mm / 0.197 in
8 – 9 mm / 0.33 in

❶ For other resistor values – contact factory
❷ If used with intermediate plate 280-331 also suitable for Ex i-applications

	Item No.	Pack. unit pcs
2-conductor diode terminal blocks		
with diode 1 N 4007		
Circuit I, grey	**281-603/281-410**	100
Circuit II, grey	**281-603/281-411**	100
2-conductor diode terminal blocks		
with diode 1 N 5408		
Circuit I, grey	**281-603/281-400**	100
Circuit II, grey	**281-603/281-401**	100
Through terminal block with the same shape		
grey	**281-601**	page 1.23

	Item No.	Pack. unit pcs
Variable resistor term. block, w. balancing resistance		
0.5 Ω – 20 Ω, 0.75 W ❶		
grey	**280-615/281-412**	100
Variable resistor term. block, w. balancing resistance		
0.5 Ω – 20 Ω, 0.75 W ❶		
blue	**280-645/281-412** ❷	100
Variable resistor term. block, w. balancing resistance		
20 Ω – 1 kΩ, 0.75 W ❶		
grey	**280-615/281-428**	100



Appropriate marking system **WMB/WSB** (see section 14)
Marker width 5 mm/0.197 in

End and intermediate plate, 2.5 mm/0.098 in thick

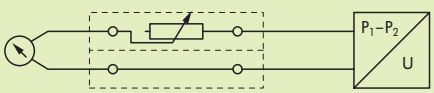


orange	**281-317**	100 (4 x 25)
grey	**281-316**	100 (4 x 25)

End and intermediate plate, 2.5 mm/0.098 in thick



orange	**280-331**	100 (4 x 25)
grey	**280-330**	100 (4 x 25)



Trimming circuit for differential pressure sensor

Accessories Series 281, see page 7.59

Accessories Series 280, see page 7.59

* For further approvals with corresponding ratings see section 15.

Accessories and Examples of Circuit Configuration
Diode Terminal Blocks, Series 279/280/281

Accessories Series 279

	Item No.	Pack. unit pcs
Comb type jumper bar, insulated, see page 2.44		
 $I_N = I_N$ of terminal block		
2-way	**279-482**	200 (8 x 25)
3-way	**279-483**	200 (8 x 25)
10-way	**279-490**	50 (2 x 25)
Alternate comb type jumper bar, insulated,		
 $I_N = I_N$ of terminal block		
2-way	**279-492**	200 (8 x 25)
Operating tool, insulated		
 2-way	**279-432**	1
3-way	**279-433**	1
10-way	**279-440**	1

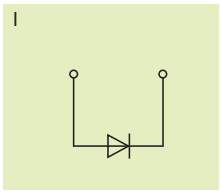
Accessories Series 280

	Item No.	Pack. unit pcs
Comb type jumper bar, insulated, see page 2.44		
 $I_N = I_N$ of terminal block		
2-way	**280-482**	200 (8 x 25)
3-way	**280-483**	200 (8 x 25)
10-way	**280-490**	50 (2 x 25)
Alternate comb type jumper bar, insulated,		
 $I_N = I_N$ of terminal block		
2-way	**280-492**	200 (8 x 25)
Operating tool, insulated		
 2-way	**280-432**	1
3-way	**280-433**	1
10-way	**280-440**	1
Wire commoning chain, insulated, 50 connections, 8 A		
 black	**210-103**	1
blue	**210-123**	1

Accessories Series 281

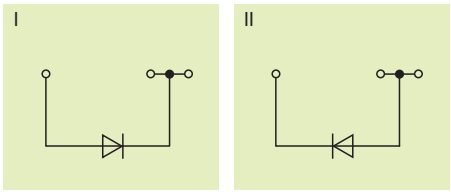
	Item No.	Pack. unit pcs
Comb type jumper bar, insulated, see page 2.44		
 $I_N = I_N$ of terminal block		
2-way	**281-482**	100 (4 x 25)
3-way	**281-483**	100 (4 x 25)
5-way	**281-485**	100 (4 x 25)
10-way	**281-490**	50 (2 x 25)
Alternate comb type jumper bar, insulated,		
 $I_N = I_N$ of terminal block		
2-way	**281-492**	100 (4 x 25)
Operating tool, insulated		
 2-way	**280-432**	1
3-way	**280-433**	1
5-way	**281-440**	1
Wire commoning chain, insulated, 50 connections, 8 A		
 black	**210-103**	1
blue	**210-123**	1

2-conductor diode terminal block



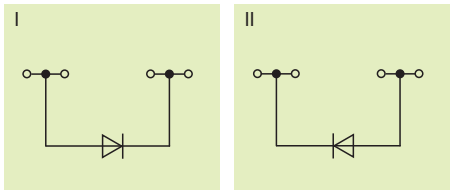
	Item No.	Pack. unit pcs
Circuit I	**279-915/281-410**	100
Circuit II	**279-915/281-411**	100
Circuit I	**280-915/281-410**	100
Circuit II	**280-915/281-411**	100
Circuit I	**280-613/281-410**	100
Circuit II	**280-613/281-411**	100
Circuit I	**281-915/281-410**	50
Circuit II	**281-915/281-411**	50
Circuit I	**281-915/281-400**	50
Circuit II	**281-915/281-401**	50

3-conductor diode terminal block

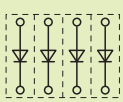


	Item No.	Pack. unit pcs
Circuit I	**279-673/281-410**	100
Circuit II	**279-673/281-411**	100
Circuit I	**280-673/281-410**	100
Circuit II	**280-673/281-411**	100
Circuit I	**281-673/281-410**	50
Circuit II	**281-673/281-411**	50
Circuit I	**281-673/281-400**	50
Circuit II	**281-673/281-401**	50

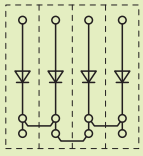
4-conductor diode terminal block



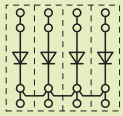
	Item No.	Pack. unit pcs
Circuit I	**279-815/281-410**	100
Circuit II	**279-815/281-411**	100
Circuit I	**279-623/281-410**	100
Circuit II	**279-623/281-411**	100
Circuit I	**280-815/281-410**	100
Circuit II	**280-815/281-411**	100
Circuit I	**280-655/281-410**	100
Circuit II	**280-655/281-411**	100
Circuit I	**280-623/281-410**	100
Circuit II	**280-623/281-411**	100
Circuit I	**281-665/281-410**	50
Circuit II	**281-665/281-411**	50
Circuit I	**281-665/281-400**	50
Circuit II	**281-665/281-401**	50



Open diode gate



Polarized diode gate, common cathode



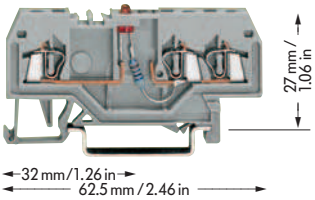
Polarized diode gate, common cathode

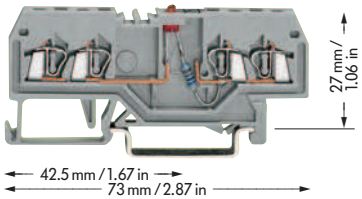
LED Terminal Blocks 1.5 mm² / AWG 16 and 2.5 mm² / AWG 12, Series 279 and 280

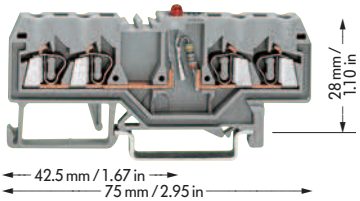
0.08 – 1.5 mm² | AWG 28 – 16
DC 24 V
I_F 25 mA max.
Terminal block width 4 mm / 0.157 in
8 – 9 mm / 0.33 in

0.08 – 1.5 mm² | AWG 28 – 16
DC 24 V
I_F 25 mA max.
Terminal block width 4 mm / 0.157 in
8 – 9 mm / 0.33 in
* KEMA KEUR CCA KEMA KEUR CNET BV LR NV

0.08 – 2.5 mm² | AWG 28 – 12
DC 24 V
I_F 25 mA max.
Terminal block width 5 mm / 0.197 in
8 – 9 mm / 0.33 in
* UL



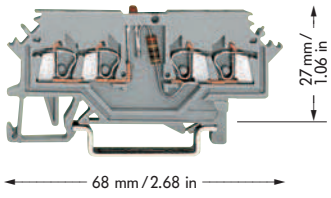


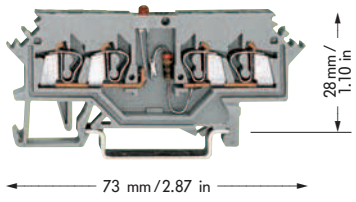


	Item No.	Pack. unit pcs
3-conductor LED terminal blocks		
with red LED, DC 24 V		
Circuit I, grey	**279-674/281-434**	100
Circuit II, grey	**279-674/281-413**	100
Examples of circuit configuration see page 7.61		
Through terminal block with the same shape		
grey	**279-681**	page 2.8
Appropriate marking system **WMB/WSB** (see section 14) Marker width 4 mm/0.157 in		
End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-339**	100 (4 x 25)
grey	**279-308**	100 (4 x 25)

	Item No.	Pack. unit pcs
4-conductor LED terminal blocks		
with red LED, DC 24 V		
Circuit I, grey	**279-809/281-434**	100
Circuit II, grey	**279-809/281-413**	100
Examples of circuit configuration see page 7.61		
Through terminal block with the same shape		
grey	**279-831**	page 2.8
Appropriate marking system **WMB/WSB** (see section 14) Marker width 4 mm/0.157 in		
End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-346**	100 (4 x 25)
grey	**279-344**	100 (4 x 25)

	Item No.	Pack. unit pcs
4-conductor LED terminal blocks		
with red LED, DC 24 V		
Circuit I, grey	**280-809/281-434**	100
Circuit II, grey	**280-809/281-413**	100
Examples of circuit configuration see page 7.61		
Through terminal block with the same shape		
grey	**280-833**	page 2.10
Appropriate marking system **WMB/WSB** (see section 14) Marker width 5 mm/0.197 in		
End and intermediate plate, 2.5 mm / 0.098 in thick		
orange	**280-315**	100 (4 x 25)
grey	**280-314**	100 (4 x 25)





	Item No.	Pack. unit pcs
4-conductor LED terminal blocks		
with red LED, DC 24 V		
Circuit I, grey	**279-624/281-434**	100
Circuit II, grey	**279-624/281-413**	100
Examples of circuit configuration see page 7.61		
Through terminal block with the same shape		
grey	**279-621**	page 2.9
Appropriate marking system **WMB/WSB** (see section 14) Marker width 4 mm/0.157 in		
End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-317**	100 (4 x 25)
grey	**279-316**	100 (4 x 25)
Accessories Series 279, see page 7.61		

	Item No.	Pack. unit pcs
4-conductor LED terminal blocks		
with red LED, DC 24 V		
Circuit I, grey	**280-624/281-434**	100
Circuit II, grey	**280-624/281-413**	100
Examples of circuit configuration see page 7.61		
Through terminal block with the same shape		
grey	**280-621**	page 2.12
Appropriate marking system **WMB/WSB** (see section 14) Marker width 5 mm/0.197 in		
End and intermediate plate, 2.5 mm / 0.098 in thick		
orange	**280-317**	100 (4 x 25)
grey	**280-316**	100 (4 x 25)
Accessories Series 280, see page 7.61		

* For further approvals with corresponding ratings see section 15.