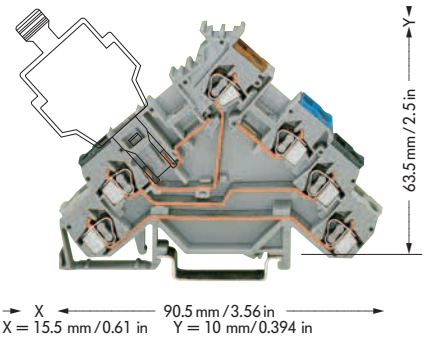
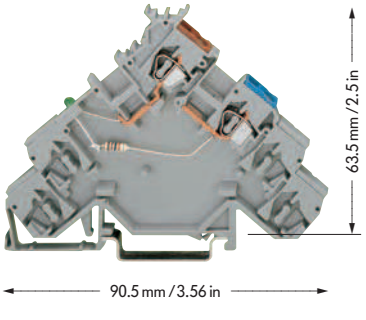
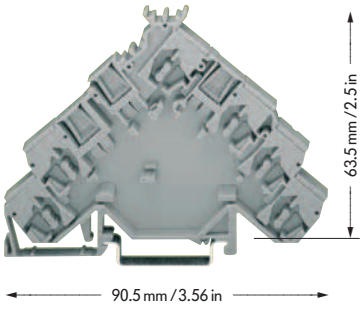
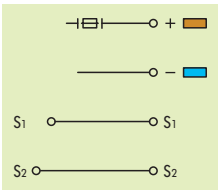
Sensor Terminal Blocks 2.5 mm² /AWG 12, for Fuse Plugs for 3- and 4-Conductor Sensors Series 280

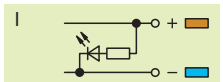
0.08 – 2.5 mm² / 125 V/5 A ❶	AWG 28 – 12 / 250 V; 6,3 A / 300 V, 15 A	0.08 – 2.5 mm² / DC 24 V ❷ / 20 A	AWG 28 – 12 / 300/24 V, 15 A / 300 V, 15 A	Spacer
Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		Spacer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









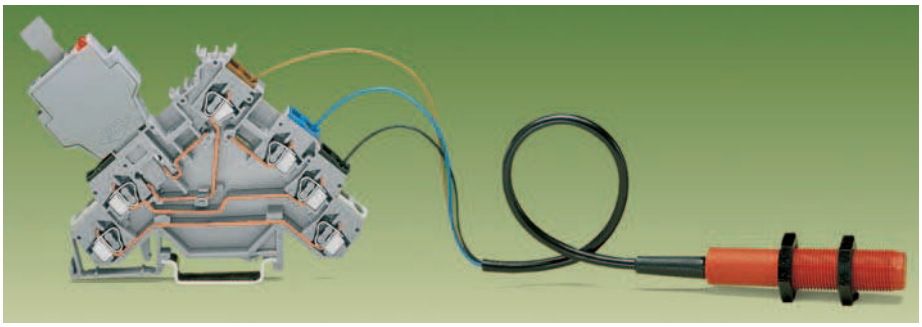




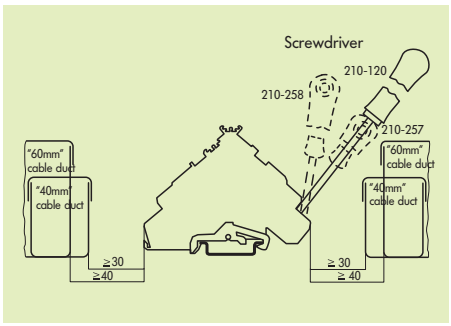
	Item No.	Pack. unit pcs
Sensor terminal blocks, for fuse plugs, for PNP (positive) switching sensors		
without end plate	**280-588**	50
with end plate		
grey	**280-588/280-320**	50
orange	**280-588/280-323**	50

	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

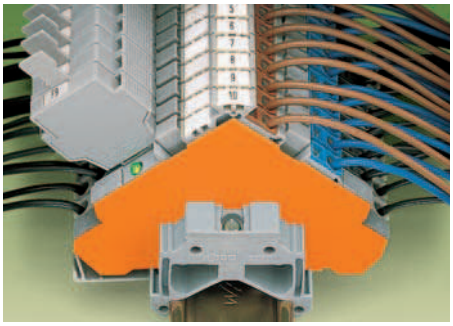
	Item No.	Pack. unit pcs
Spacer, same shape as 4-conductor sensor terminal blocks, 3-conductor sensor terminal blocks with ground (earth) connection or the corresponding actuator terminal blocks	**280-582**	50



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

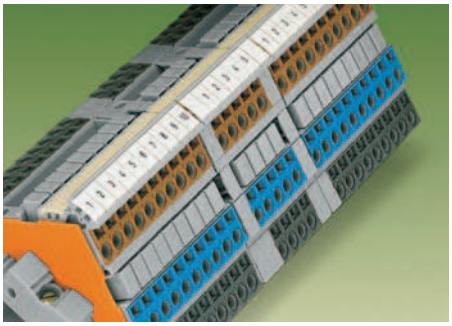


Min. mounting distance – terminal blocks to cable duct



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.

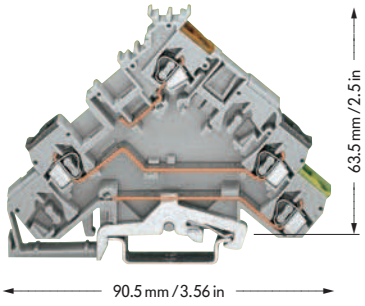
Actuator Terminal Blocks 2.5 mm² / AWG 12, for Actuators with Shield (Screen) Connection and for Actuators with Shield (Screen) Conductor Through Contact (for Thermocouples etc.) Series 280

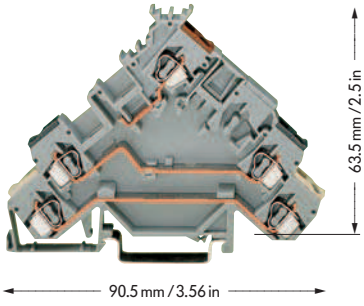
0.08 – 2.5 mm²	AWG 28 – 12
400 V/6 kV/3 ❶	300 V, 15 A
20 A	300 V, 15 A

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

8 – 9 mm / 0.33 in

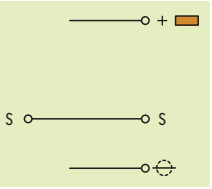
* BV

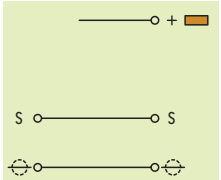






Green-yellow clamping unit = shield (screen) connection

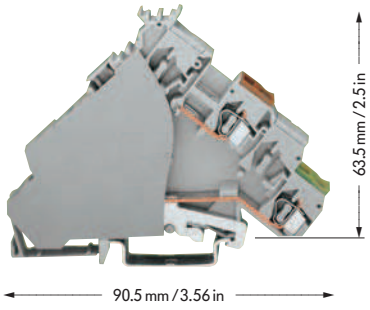


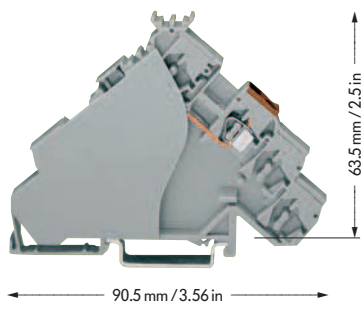


❶ 400 V = rated voltage
6 kV = rated surge voltage
3 = pollution degree
(see also section 15)

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

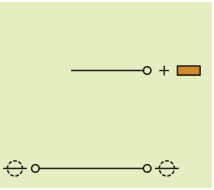
Item No.	Pack. unit pcs
Actuator terminal block with shield (screen) conductor through contact	
280-583	50







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

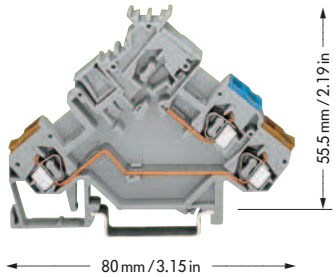


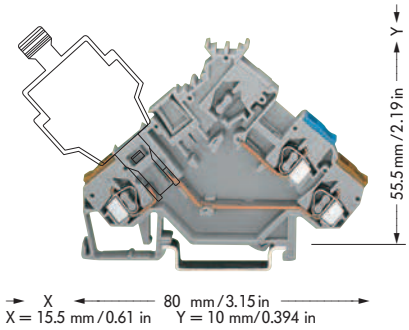
grey **280-402** 200 (8 x 25)

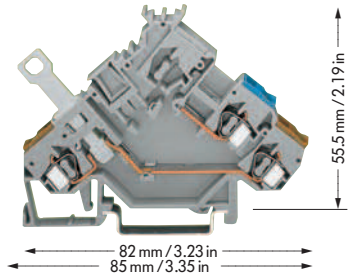
* For further approvals with corresponding ratings see section 15.

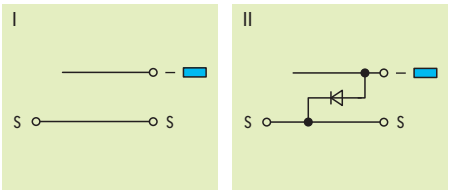
Actuator Terminal Blocks 2.5 mm² / AWG 12, (for Pressure Switches, Thermocouples etc.) Series 280

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 *	







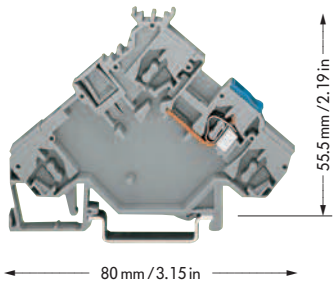


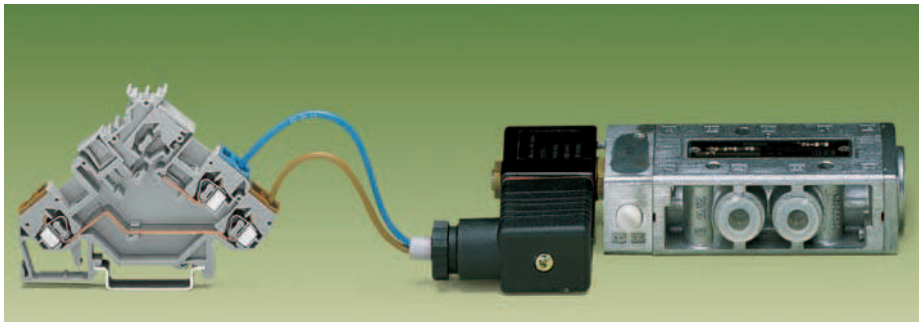
	Item No.	Pack. unit pcs
Actuator terminal block		
I	**280-562**	50
Actuator terminal block,		
with recovery diode 1 N 4007 ❷		
II	**280-562/281-411**	50

	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

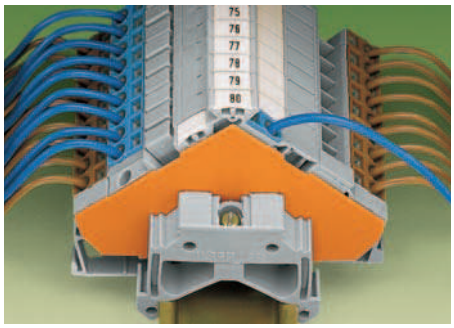
	Item No.	Pack. unit pcs
Actuator disconnect terminal block,		
for interruption of line		
	280-566	50

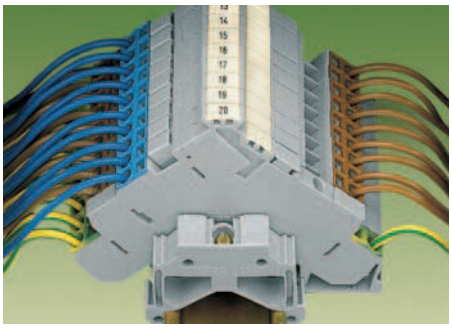
Appropriate marking system **WMB/WSB** (see section 14)





Actuator terminal block, here with a magnetic valve



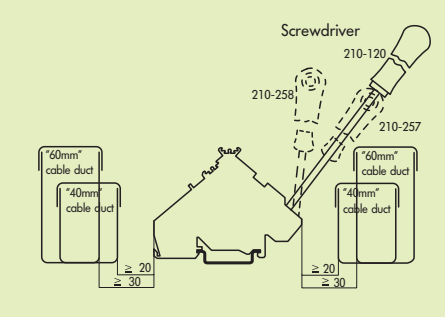


	Item No.	Pack. unit pcs
Actuator supply terminal block,		
voltage supply from actuator side		
	280-592	10

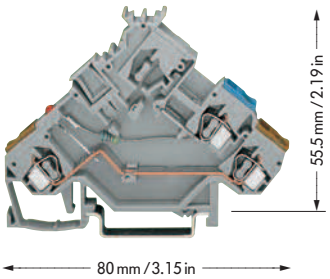
Accessories see page 7.53
Insulation stop and jumper

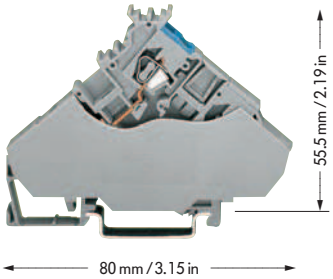
* For further approvals with corresponding ratings see section 15.

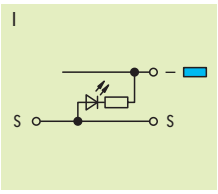
	0.08 – 2.5 mm² / AWG 28 – 12 DC 24 V ❺ / 24 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in *	0.08 – 2.5 mm² / AWG 28 – 12 400 V/6 kV/3 ❶ / 300 V, 15 A 20 A / 300 V, 15 A Terminal block width with end plate 6 mm / 0.236 in 8 – 9 mm / 0.33 in *

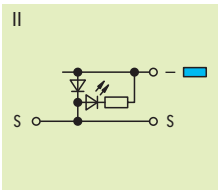


Min. mounting distance – terminal blocks to cable duct



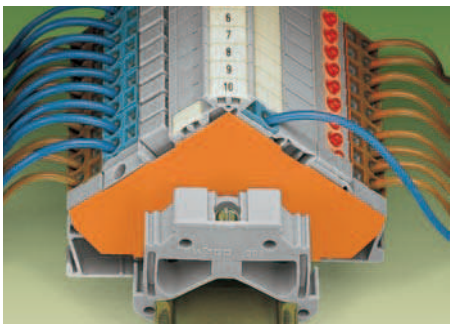






	Item No.	Pack. unit pcs
Actuator LED terminal block, DC 24 V		
I LED red ❻	**280-562/281-434**	50
Actuator LED terminal block, DC 24 V, with recovery diode 1 N 4007		
II LED red ❻	**280-562/281-420**	50

	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)

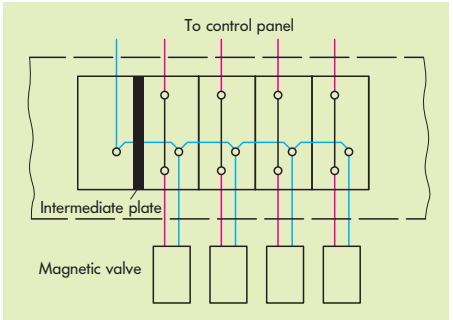
❷ with recovery diode

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



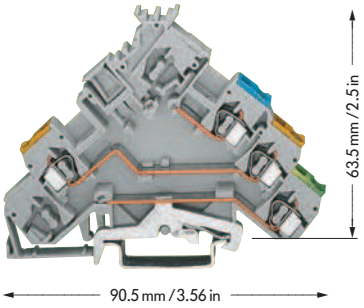
grey	**280-402**	200 (8 x 25)

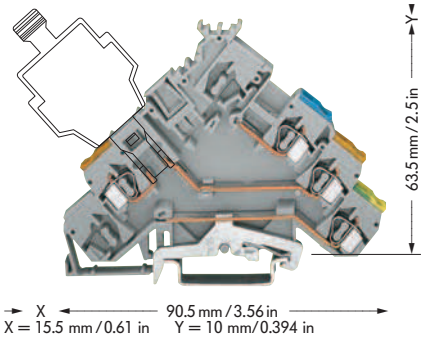
Actuator Terminal Blocks with Ground (Earth) Connection 2.5 mm² / AWG 12, (for Magnetic Valves, Servomotors etc.) Series 280

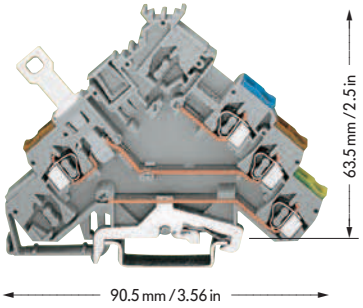
0.08 – 2.5 mm²	AWG 28 – 12	
400 V/6 kV/3, 20 A ❶	300 V, 15 A	
250 V/4 kV/3, 20 A ❶ ❷	300 V, 15 A	
Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		
8 – 9 mm / 0.33 in		
* BV		

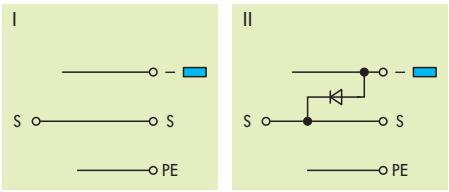
0.08 – 2.5 mm²	AWG 28 – 12	
125 V/5 A ❸	250 V; 6.3 A	
250 V/6.3 A ❸	300 V, 15 A	
Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in)		
8 – 9 mm / 0.33 in		
*		

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		





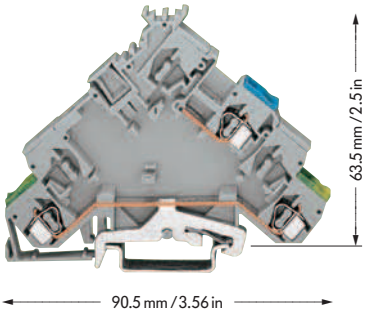


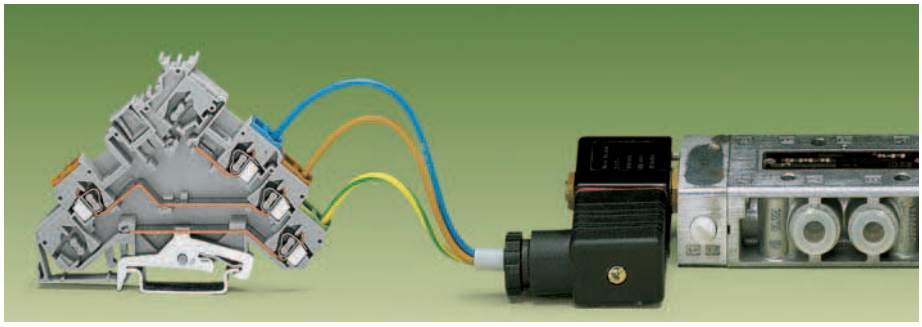


Item No.	Pack. unit pcs
Actuator terminal blocks	
with ground (earth) connection,	
I **280-572**	50
and recovery diode 1 N 4007	
II **280-572/281-411**	50

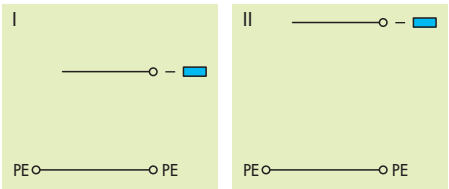
Item No.	Pack. unit pcs
Actuator terminal blocks	
with ground (earth) connection,	
for fuse plugs ❹, for fuse protection of line,	
without end plate **280-575**	50
with end plate	
grey **280-575/280-320**	50
orange **280-575/280-323**	50

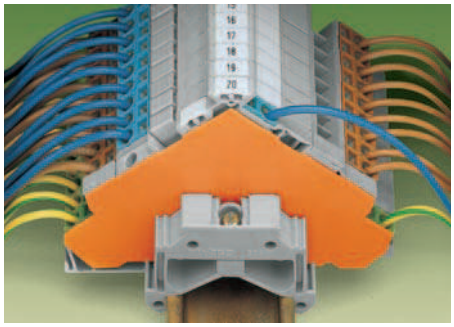
Item No.	Pack. unit pcs
Actuator disconnect terminal block	
with ground (earth) connection,	
for interruption of line	
280-576	50

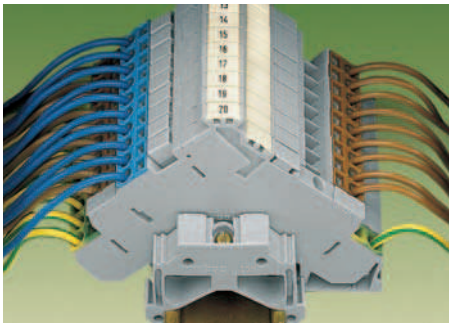




Actuator terminal block, here with a magnetic valve with ground (earth) connection





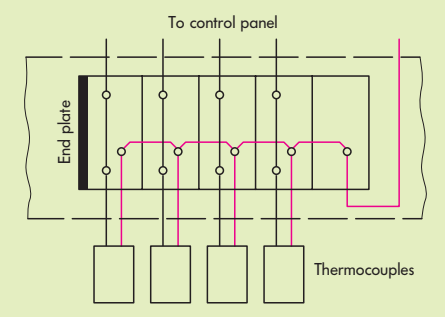


Item No.	Pack. unit pcs
Actuator disconnect terminal blocks	
with ground (earth) connection,	
voltage supply from the actuator side	
I **280-593**	10
voltage supply from the control panel side,	
with end plate	
II **280-578**	20

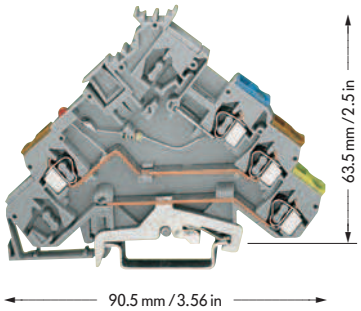
Accessories see page 7.55
Insulation stop and jumper

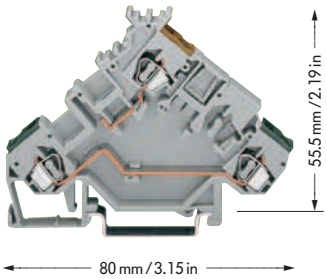
*For further approvals with corresponding ratings see section 15.

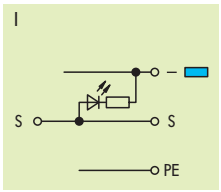
	0.08 – 2.5 mm² / AWG 28 – 12 DC 24 V ❸ / 24 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in 8 – 9 mm / 0.33 in * BV	0.08 – 2.5 mm² / AWG 28 – 12 400 V/6 kV/3 ❷ / 300 V, 15 A 20 A / 300 V, 15 A Terminal block width 5 mm / 0.197 in (with end plate 6 mm / 0.236 in) 8 – 9 mm / 0.33 in * BV

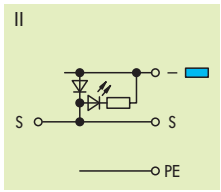


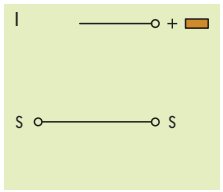
Voltage supply from actuator side

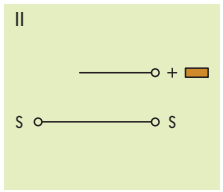








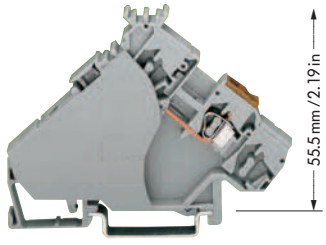




	Item No.	Pack. unit pcs
End and intermediate plate, 1 mm/0.039 in thick		
for triple deck terminal blocks		
orange	**280-321**	100 (4 x 25)
grey	**280-319**	100 (4 x 25)
End and intermediate plate, 1 mm/0.039 in thick		
for quadruple deck terminal blocks		
orange	**280-323**	100 (4 x 25)
grey	**280-320**	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.

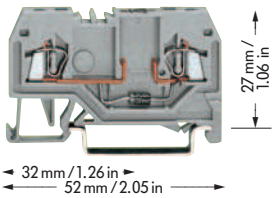
	Item No.	Pack. unit pcs
Actuator supply terminal block, in connection with:		
280-555 → voltage supply from control panel side		
280-554 → voltage supply from actuator side		
with end plate	**280-556**	20

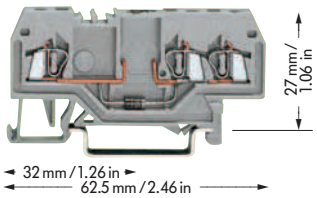
Diode Terminal Blocks 1.5 mm² / AWG 16, Series 279

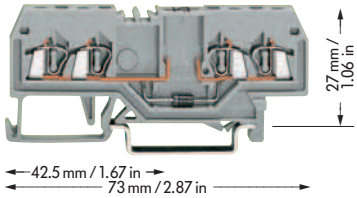
0.08 – 1.5 mm² | AWG 28 – 16
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
Terminal block width 4 mm / 0.157 in
8 – 9 mm / 0.33 in

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)

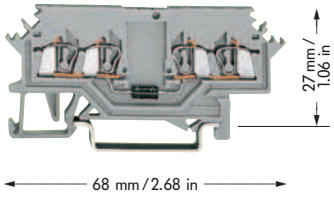


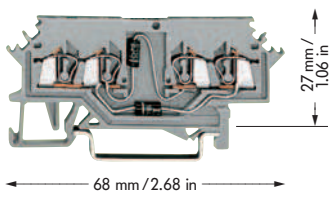
End and intermediate plate, 2 mm / 0.079 in thick		
orange	**279-339**	100 (4 x 25)
grey	**279-308**	100 (4 x 25)



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)

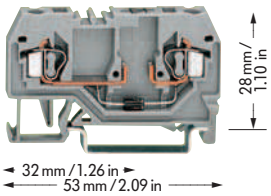


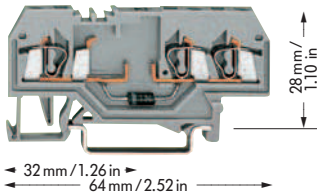
Accessories Series 279, see page 7.59

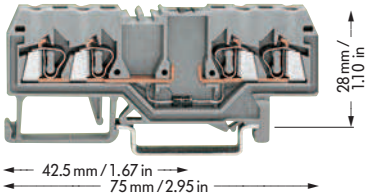
* For further approvals with corresponding ratings see section 15.

Diode Terminal Blocks 2.5 mm² / AWG 12, Series 280

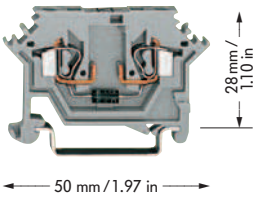
0.08 – 2.5 mm² | AWG 28 – 12 **U_N 250 V; U_{RM} 1000 V** **1 N 4007 – 0.5 A continuous current** **Terminal block width 5 mm / 0.197 in** **8 – 9 mm / 0.33 in** *	**0.08 – 2.5 mm² | AWG 28 – 12** **U_N 250 V; U_{RM} 1000 V** **1 N 4007 – 0.5 A continuous current** **Terminal block width 5 mm / 0.197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

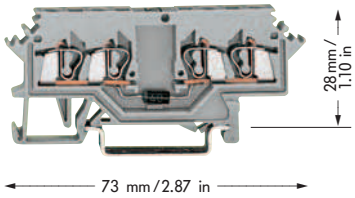


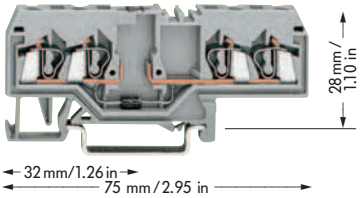




Item No.	Pack. unit pcs	Item No.	Pack. unit pcs	Item No.	Pack. unit pcs
2-conductor diode terminal blocks with diode 1 N 4007		**3-conductor diode terminal blocks with diode 1 N 4007**		**4-conductor diode terminal blocks with diode 1 N 4007**	
Circuit I, grey **280-915/281-410**	100	Circuit I, grey **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

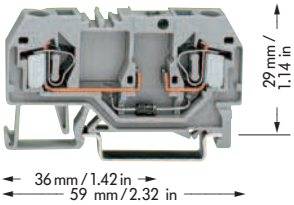
* For further approvals with corresponding ratings see section 15.

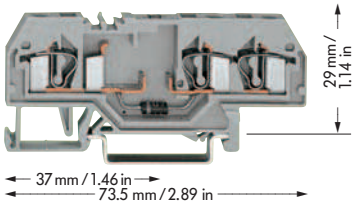
Diode Terminal Blocks 4 mm² / AWG 12 and Variable Resistor Terminal Blocks 2.5 mm² / AWG 12, Series 281 and Series 280

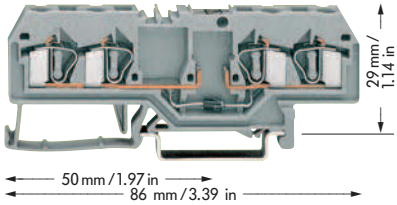
0.08 – 4 mm² | **AWG 28 – 12**
U_N 250 V; U_{RM} 1000 V
1 N 4007 – 0.5 A continuous current
1 N 5408 – 1.5 A continuous current
Terminal block width 6 mm / 0.236 in
9 – 10 mm / 0.37 in
* KEMA KEUR CCA KEMA KEUR BV LR NV

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

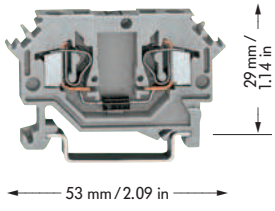


orange	**281-326**	100 (4 x 25)
grey	**281-324**	100 (4 x 25)

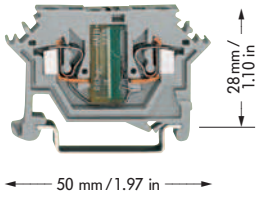
End and intermediate plate, 2.5 mm/0.098 in thick



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



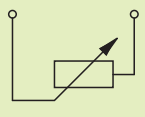
0.08 – 2.5 mm² | **AWG 28 – 14**
250 V

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

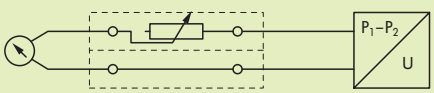


orange	**281-317**	100 (4 x 25)
grey	**281-316**	100 (4 x 25)

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.