### **Sensor and Actuator Terminal Blocks** 280 Series

#### 256 Assembly



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

#### Removal



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

#### **CAGE CLAMP®** connection

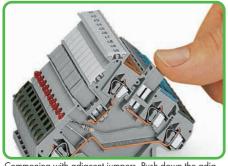


Conductor termination with straight operating tool (210-720).

#### Commoning



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



Power supply

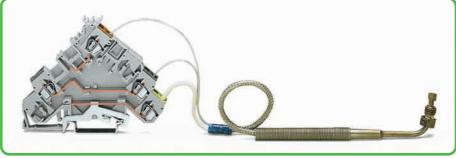


Sensor terminal blocks. Power supply from control cabinet side.

#### Power supply



Sensor terminal blocks. Power supply from sensor side.



Actuator terminal block and thermocouple with shield contact.



CAGE CLAMP® clamps the following copper conductors:





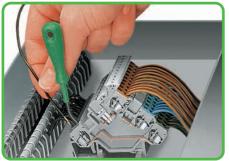
stranded



fine-stranded, also with tinned single strands

## - Description and Handling -

#### CAGE CLAMP® connection



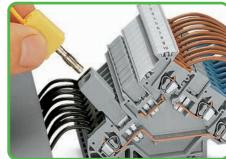
Conductor termination with angled operating tool (210-658).

#### Marking



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

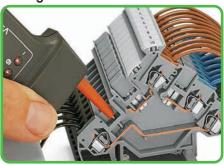
#### **Testing**



CAGE CLAMP®

Testing via banana plug and 209-170 test plug adapter

#### **Testing**



Testing with voltage tester directly on the current bar.

#### **Fuse plugs**



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



Actuator terminal block with thermocouple.

## Component plugs



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







258

## Sensor Terminal Blocks 2.5 mm<sup>2</sup> for 3-Conductor Sensors 280 Series

0.08 - 2.5 mm<sup>2</sup> AW 400 V/6 kV/3 **1** 300 I<sub>N</sub> 20 A 300

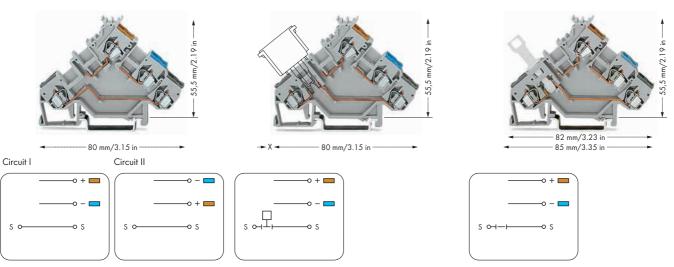
AWG 28 - 12 \* 300 V, 15 A**93** 300 V, 15 A**9** 

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

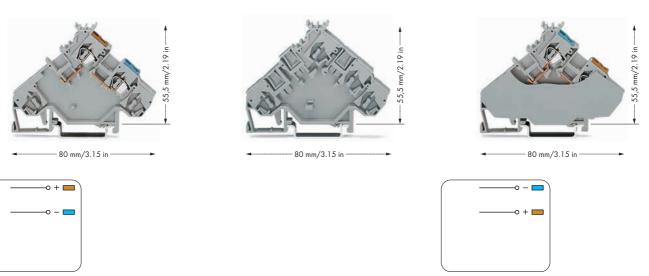
0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 \* 300 V, 6 A**N** I<sub>N</sub> 6 A **2** 300 V, 15 A**6** 

0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 **1** I<sub>N</sub> 10 A AWG 28 - 12 \* 300 V, 10 A **%** 300 V, 15 A **®** 

Terminal block width 5 mm / 0.197 in  $\boxed{\phantom{0}}$  8 - 9 mm / 0.33 in  $\bigcirc$ 



	Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Sensor terminal block			Sensor terminal block,		Sensor disconnect terminal block,	
			for component plugs		for signal interruption	
Circuit I	280-560	50	280-561 4	50	280-563	50
Circuit II	280-553	50				



	Item No.	Pack. Unit		Item No.	Pack. Unit		Item No.	Pack. Unit
Sensor supply terminal block,			Spacer,			Sensor supply terminal block,		
power suppl	ly from sensor side		same profile a	s 3-conductor sensor termina	l blocks or	power supply from a	control panel side,	
				ctuator terminal blocks		with end plate		
			Spacers with the profile clearly differentiate between sen-					
			sor or actuator terminal groups, e.g., of different power					
			supply.					
	280-564	10	gray	280-559	50	0	280-567	20
						Technical data:		
						400 V/6 kV/3		I <sub>N</sub> 20 A



Sensor terminal block with 3-conductor sensor

- \* AWG 12: THHN, THWN
- 1 400 V/250 V = rated voltage 6 kV/4 kV = rated surge voltage 3 = pollution degree

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

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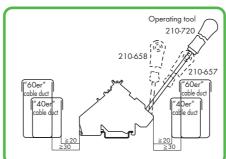
- 3 Strip length, see packaging or instructions.
- 4 For empty component plug housings, see interface modules
  - x = 12 mm/0.472 inFor fuse plugs, see page 250 x = 20 mm/0.787 in
- See application notes for: Insulation stop, page 293



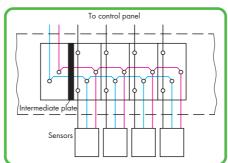
To control panel

Power supply from sensor side

Sensors



Min. mounting distance - terminal blocks to cable duct



Power supply from control panel side

## 280 Series Accessories

Appropriate marking system: WMB (see Section 13)

End and intermediate plate, 1 mm thick,				
	for triple-dec	k terminal block	S	
4	orange	280-321	100 (4x25	
	gray	280-319	100 (4x25	

#### Insulation stop,

6	5 pcs/strip	),	
40999	0.08 - 0.2	mm <sup>2</sup> "s" (0.14 m	nm² "f-st")
	white	280-470	200 (8x25

#### Insulation stop,

6	5 pcs/strip,				
	0.25 - 0.5 m	0.25 - 0.5 mm <sup>2</sup>			
	light gray	280-471	200 (8x25		

#### Insulation stop,

6	5 pcs/strip,		
-	0.75 - 1 mm <sup>2</sup>		
-	dark gray	280-472	200 (8x25

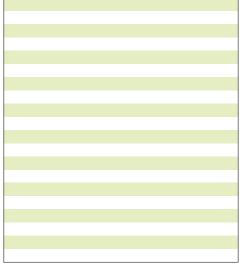
#### Adjacent jumper, insulated, $I_N = I_N$ terminal block

Screwless end stop,				
	for DIN 35 rd	ail,		
(212)	6 mm wide			
/-	gray	249-116	100 (4x25)	

## Screwless end stop,

	for DIN 35 rail,	,	
OTTO	10 mm wide		
7	ara.	240 117	50 (2,25)

280-402 200 (8x25)





#### Sensor LED Terminal Blocks 2.5 mm<sup>2</sup> for 3-Conductor Sensors 280 Series



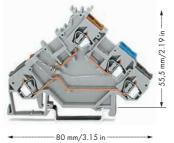
260

Circuit I

0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 \* 24 VDC 1 24 V, 15 A 🗫 20 A 300 V, 15 A® Terminal block width 5 mm / 0.197 in 0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 \* 24 VDC 1 24 V, 15 A 🕦 20 A 300 V, 15 A®

Terminal block width 5 mm / 0.197 in

8 - 9 mm / 0.33 in 2 8 - 9 mm / 0.33 in 2

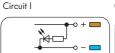


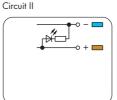
Circuit II











Pack.

Unit

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



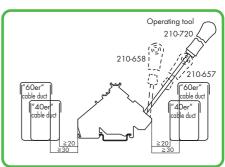
	Item No.	Pack. Unit	
Sensor LED term	inal block,		Sensor LED su
for PNP (positive) :	switching sensors,		power supply f
additional LED, 24	VDC, LED power consumpti	on: 4.8 mA	for PNP (positiv
			green LED, 24
Circuit I	280-560/281-434	50	Circuit I
Sensor LED term	Sensor LED su		
for NPN (negative	power supply f		
red LED, 24 VDC,	LED power consumption: 4.8	B mA	for NPN (nega
			green LED, 24
Circuit II	280-561/281-413	50	Circuit II

#### upply terminal block, from sensor side, ve) switching sensors, VDC, LED power consumption: 4.8 mA 280-564/281-483 upply terminal block, from sensor side, ative) switching sensors, VDC, LED power consumption: 4.8 mA **280-566/281-496** 10

Item No.

#### 280 Series Accessories

End and inter	mediate plate	, 1 mm thick,		Insulation sto	р,		
	for triple-deck terminal blocks				5 pcs/strip,		
	orange	280-321	100 (4×25)	56.77	0.25 - 0.5 mm <sup>2</sup>		
	gray	280-319	100 (4x25)		light gray	280-471	200 (8×25)
Insulation stop,				Insulation stop,			
	5 pcs/strip,			7000	5 pcs/strip,		
40999	0.08 - 0.2 mr	! mm² "s" (0.14 mm² "f-st")		-	0.75 - 1 mm <sup>2</sup>		
	white	280-470	200 (8×25)		dark gray	280-472	200 (8×25)



Min. mounting distance - terminal blocks to cable duct



Sensor LED terminal block with 3-conductor sensor

#### Sensor LED Terminal Blocks 2.5 mm<sup>2</sup> for 4-Conductor Sensors 280 Series

CAGE CLAMP®

0.08 - 2.5 mm<sup>2</sup> 24 VDC 1 20 A

AWG 28 - 12 \* 24 V, 15 A 🕦

20 A

300 V, 15 A®

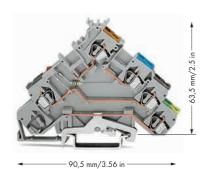
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 2

0.08 - 2.5 mm<sup>2</sup> 24 VDC ①

AWG 28 - 12 \* 24 V, 15 A 🕦 300 V, 15 A®

Terminal block width 5 mm / 0.197 in

8 - 9 mm / 0.33 in 2



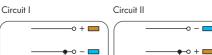


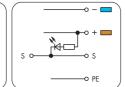


90,5 mm/3.56 in

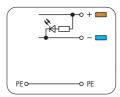
\* AWG 12: THHN, THWN

1 Other voltages upon request. 2 Strip length, see packaging or instructions.

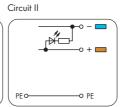




Darale



Circuit I



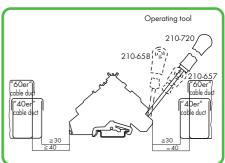
Darala



	Item No.	Pack. Unit	Item No.		Pack. Unit	
Sensor LED term	inal block,		Sensor LED supply terminal block,			
for PNP (positive)	switching sensors,		power supply fro	m sensor side,		
red LED, 24 VDC,	LED power consumption: 4.8	3 mA	for PNP (positive)	switching sensors,		
			green LED, 24 VI	DC, LED power consumption:	4.8 mA	
Circuit I	280-570/281-434	50	Circuit I	280-574/281-483	10	
			_			
Sensor LED term	nsor LED terminal block, Sensor LED supply terminal block,					
for NPN (negative) switching sensors,			power supply from sensor side,			
additional LED, 24	VDC, LED power consumpti	ion: 4.8 mA	for NPN (negative) switching sensors,			
			green LED, 24 VDC, LED power consumption: 4.8 mA			
Circuit II	280-571/281-413	50	Circuit II	280-576/281-496	10	
			Sensor LED sup	ply terminal block,		
			power supply fro	m control panel side,		
			for PNP (positive) switching sensors,			
			green LED, 24 VDC, LED power consumption: 4.8 mA,			
			with end plate			
			Circuit II	280-577/281-496	20	

### 280 Series Accessories

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



Min. mounting distance - terminal blocks to cable duct



Sensor LED terminal block, with 3-conductor sensor with ground connection Certification organizations can be found in the overview on pages 622 and 623.



## tion

### 280 Series

0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 1 I<sub>N</sub> 20 A

AWG 28 - 12 \* 300 V, 15 A 🗫 300 V, 15 A®

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

0.08 - 2.5 mm<sup>2</sup> 250 V/4 kV/3 1 2 AWG 28 - 12 \* 300 V, 6 A 94 300 V, 15 A@

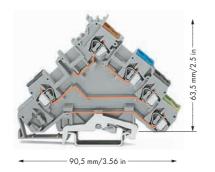
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

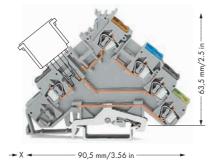
Sensor Terminal Blocks 2.5 mm<sup>2</sup> for 3-Conductor Sensors with Ground Connec-

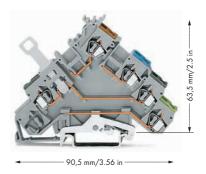
0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 1 I<sub>N</sub> 10 A

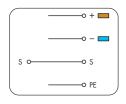
AWG 28 - 12 \* 300 V, 10 A 94 300 V, 15 A®

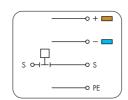
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in **3** 

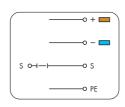




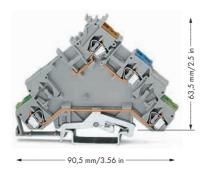


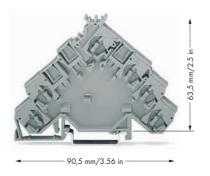


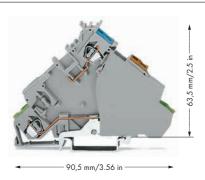


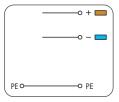


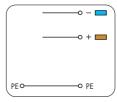
	Item No.	Pack. Unit	Item No.	Pack. Unit	Item No	o. Pack. Unit
Sensor terminal block with ground connection			Sensor terminal block with ground co	onnection,	Sensor disconnect terminal block with ground	
			for component plugs		nection, for signal interruption	
	280-570	50	280-571 4	50	280-573	<b>3</b> 50



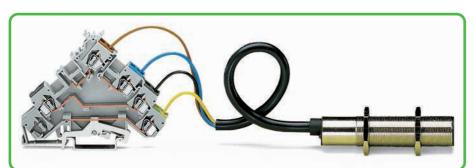








	Item No.	Pack. Unit		Item No.	Pack. Unit		Item No.	Pack. Unit
Sensor supply terminal block with ground connec-			Spacer,			Sensor supply ter	minal block with	ground connec-
tion,			same profile o	as 4-conductor sensor termina	al blocks, 3-con-	tion,		
power supply	y from sensor side		ductor sensor	terminal blocks with ground	connection or	power supply from	control panel side,	
			appropriate a	ctuator terminal blocks		with end plate		
S			Spacers with the profile clearly differentiate between sen-					
			sor or actuato	r terminal groups, e.g., of dil	ferent power			
			supply.					
	280-574	10		280-582	50		280-577	20
						Technical data:		
						400 V/6 kV/3		I <sub>N</sub> 20 A



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

- \* AWG 12: THHN, THWN
- 400 V/250 V = rated voltage 6 kV/4 kV = rated surge voltage 3 = pollution degree

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

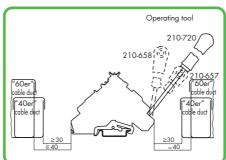
CAGE CLAMP®

- 3 Strip length, see packaging or instructions.
- 4 For empty component plug housings, see interface modules

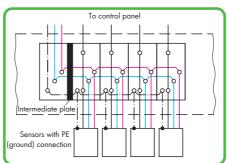
x = 12 mm/0.472 inFor fuse plugs, see page 250 x = 20 mm/0.787 in

See application notes for: Insulation stop, page 293





Min. mounting distance - terminal blocks to cable duct



Power supply from control panel side

## 280 Series Accessories

Appropriate marking system: WMB (see Section 13)

End and intermediate plate, 1 mm thick,

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

#### Insulation stop,

6 5 pcs/strip, 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st")

280-470 200 (8x25) white Insulation stop,

5 pcs/strip, 0.25 - 0.5 mm<sup>2</sup> light gray 280-471 200 (8x25)

#### Insulation stop,



5 pcs/strip, 0.75 - 1 mm<sup>2</sup>

dark gray 280-472 200 (8x25)

#### Adjacent jumper, insulated,



 $I_N = I_N$  terminal block

280-402 200 (8x25) gray

#### Screwless end stop,

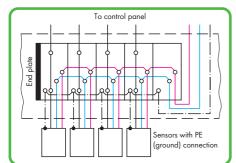
for DIN 35 rail, 6 mm wide 249-116 100 (4x25) gray

#### Screwless end stop, for DIN 35 rail,



10 mm wide 249-117 gray





Power supply from sensor side



50 (2x25)

264

## Sensor Terminal Blocks 2.5 mm<sup>2</sup> for 4-Conductor Sensors 280 Series

0.08 - **2.5 mm**<sup>2</sup> 400 V/6 kV/3 **1** I<sub>N</sub> 20 A

AWG 28 - 12 \* 300 V, 15 A **91** 300 V, 15 A **8** 

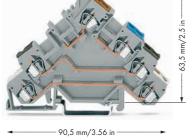
Terminal block width 5 mm / 0.197 in  $\bigcirc$  8 - 9 mm / 0.33 in §

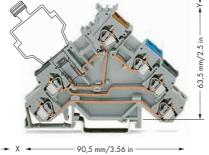
0.08 - **2.5** mm<sup>2</sup> 125 V/5 A **2** 250 V/6.3 A **2**  AWG 28 - 12 \* 300 V, 6 A A 300 V, 15 A 6

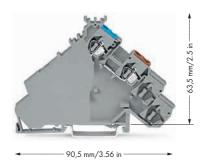
Terminal block width 5 mm / 0.197 in ■ 8 - 9 mm / 0.33 in 
③ 0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 **1** I<sub>N</sub> 20 A AWG 28 - 12 \* 24 V, 15 A X 300 V, 15 A &

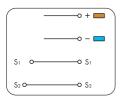
Terminal block width 6 mm / 0.236 in 8 - 9 mm / 0.33 in 3

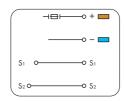


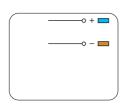




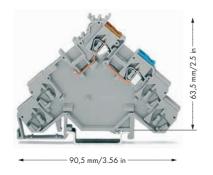


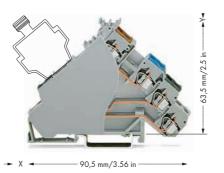


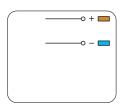


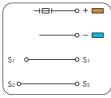


	Item No.	Pack. Unit	Item No.	Pack. Unit		Item No.	Pack. Unit
Sensor terminal block			Sensor terminal block,		Sensor supply terminal block,		
			for fuse plugs,		power supply	from control panel side,	
			for PNP (positive) switching sensors without	end plate	with end plate	е	
	280-580	50	280-588 4	50		280-587	20







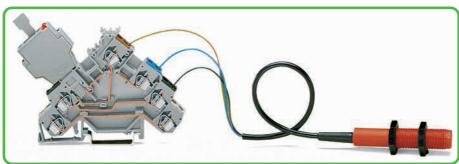


	Item No.	Pack. Unit		Item No.	Pack. Unit
Sensor su	Sensor supply terminal block,		Sensor terr	ninal block, for fuse plugs,	
power sup	oply from sensor side,		for PNP (po:	sitive) switching sensors	
without en	nd plate		with gray en	nd plate	
	280-584	10		280-588/280-320	50
			with orange end plate		
				280-588/280-323	50



Sensor terminal block with 4-conductor sensor

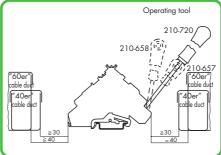
- AWG 12: THHN, THWN
- 400 V = rated voltage6 kV = rated surge voltage3 = pollution degree (also see Section 14)
- 2 Electrical ratings are given by the fuse plug or empty component plug housing.
- 3 Strip length, see packaging or instructions.
- 4 For empty component plug housings, see interface modules
  - x = 12 mm/0.472 inFor fuse plugs, see page 248 x = 15.5 mm/0.61 in y = 10 mm/0.394 in
- See application notes for: Insulation stop, page 293



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



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



Min. mounting distance - terminal blocks to cable duct

#### 280 Series Accessories

Appropriate marking system: WMB (see Section 13)

Ena ana intermediate plate, i mm tnick,					
	for quadru	ple-deck terminal l	olocks		
	orange	280-323	100 (4x25)		
	gray	280-320	100 (4x25)		

## Insulation stop,

499 <sup>98</sup>	5 pcs/strip	,	
	0.08 - 0.2	mm² "s" (0.14 m	m² "f-st")
	white	280-470	200 (8×25)

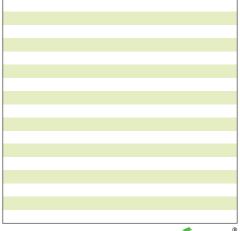
Insulation stop,						
6	5 pcs/strip,	5 pcs/strip,				
46999	0.25 - 0.5 m	m <sup>2</sup>				
	light gray	280-471	200 (8x25)			
Insulation stop,						

	. ,				
6	5 pcs/strip,				
and a	0.75 - 1 mm <sup>2</sup>				
	dark gray	280-472	200 (8x25)		
Adjacent jumper, insulated,					

	,	. ,			
10	$I_N = I_N \text{ term}$	ninal block			
4	gray <b>280-402</b>		200 (8x25)		
JU.					
Screwless end stop,					
•					

	for DIN 35 rail,			
12120	6 mm wide			
-	gray	249-116	100 (4x25)	
Screwless end	l stop,			
	for DIN 35 rd	iil,		

gray	249-117	50 (2x25)
10 mm wide		





#### Sensor LED Terminal Blocks 2.5 mm<sup>2</sup> for 4-Conductor Sensors 280 Series



266

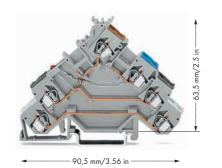
0.08 - 2.5 mm<sup>2</sup> 24 VDC ① 20 A

AWG 28 - 12 \* 24 V, 15 A 🕦

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 2

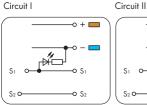
0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 \* 24 VDC 1 24 V, 15 A 🕦 20 A 300 V, 15 A®

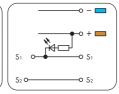
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 2

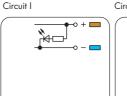


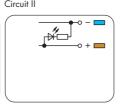


90,5 mm/3.56 inCircuit II



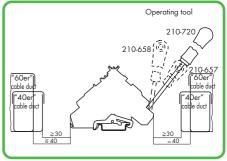






	AWG	IZ:	וחחוא,	ILIAAIA
_	0.1	1.		

- 1 Other voltages upon request.
- 2 Strip length, see packaging or instructions.



Min. mounting distance - terminal blocks to cable duct

	Item No.	Pack. Unit		Item No.	Pack. Unit
Sensor LED term	inal block,		Sensor LED sup	ply terminal block,	
for PNP (positive)	switching sensors,		power supply fro	om sensor side,	
red LED, 24 VDC,	LED power consumption: 4.8	3 mA	for PNP (positive	) switching sensors,	
			green LED, 24 V	DC, LED power consumption: 4	4.8 mA
Circuit I	280-580/281-434	50	Circuit I	280-584/281-483	10
Sensor LED term	inal block,		Sensor LED sup	ply terminal block,	
for NPN (negative	e) switching sensors,		power supply from sensor side,		
red LED, 24 VDC,	LED power consumption: 4.8	3 mA	for NPN (negative) switching sensors,		
			green LED, 24 V	DC, LED power consumption: 4	4.8 mA
Circuit II	280-581/281-413	50	Circuit II	280-586/281-496	10

#### 280 Series Accessories

End and inter	End and intermediate plate, 1 mm thick,				n.		
		le-deck terminal	blocks	Insulation sto	5 pcs/strip,		
	orange	280-323	100 (4x25)	40000	0.25 - 0.5 mm <sup>2</sup>		
- The state of the	gray	280-320	100 (4×25)		light gray	280-471	200 (8x25)
Insulation sta	p,			Insulation sto	p,		
	5 pcs/strip,				5 pcs/strip,		
49999	0.08 - 0.2 n	nm² "s" (0.14 m	m² "f-st")	-	0.75 - 1 mm	2	
	white	280-470	200 (8×25)		dark gray	280-472	200 (8x25)





Sensor LED terminal block with 4-conductor sensor

CAGE CLAMP®

### Actuator Terminal Blocks 2.5 mm<sup>2</sup> for Pressure Switches, Thermocouples, etc. Serie 280

0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 1 I<sub>N</sub> 20 A

AWG 28 - 12 \* 300 V, 15 A 🗫 300 V, 15 A@

I<sub>N</sub> 20 A

Terminal block width 5 mm / 0.197 in

8 - 9 mm / 0.33 in 2

0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 1

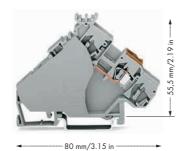
AWG 28 - 12 \* 300 V, 15 A 🗫 300 V, 15 A@

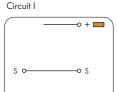
Terminal block width 6 mm / 0.236 in

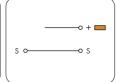
8 - 9 mm / 0.33 in 2

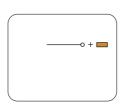








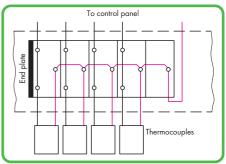




	Item No.	Pack. Unit	H	em No.	Pack. Unit
Actuator termin	Actuator terminal block			al block,	
			in connection with 280-55	55: power supply	from control
			cabinet side,		
				54: power supply	from actuator
			side,		
			with end plate		
Circuit I	280-555	50	2	80-556	20
Actuator terminal block, (no picture)					
Circuit II	280-554	50			

#### AWG 12: THHN, THWN

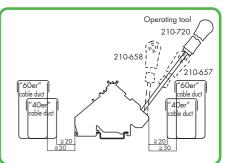
- 1 400 V = rated voltage 6 kV = rated surge voltage 3 = pollution degree (also see Section 14)
- 2 Strip length, see packaging or instructions.



Power supply from actuator side

#### 280 Series Accessories

End and intermediate plate, 1 mm thick,			Insulation sto	p,			
	for triple-deck terminal blocks				5 pcs/strip,		
	orange	280-321	100 (4×25)	66666	0.25 - 0.5 m	m <sup>2</sup>	
	gray	280-319	100 (4×25)		light gray	280-471	200 (8x25)
Insulation sta	op,			Insulation sto	p,		
	5 pcs/strip,			5 pcs/strip,			
49999	0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st")		-	0.75 - 1 mm <sup>2</sup>			
	white	280-470	200 (8x25)		dark gray	280-472	200 (8x25)
Screwless en	d stop,			Screwless en	d stop,		
	for DIN 35	rail,			for DIN 35 r	ail,	
2120	6 mm wide			2112	10 mm wide		
	gray	249-116	100 (4x25)	-	gray	249-117	50 (2x25)



Min. mounting distance - terminal blocks to cable duct



Actuator terminal block paired with a thermocouple

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

0.08 - **2.5** mm<sup>2</sup> AWG 28 - 12 \* 400 V/6 kV/3; 20 A **1 2** 300 V, 15 A**3** 250 V/4 kV/3; 20 A **1 2** 300 V, 15 A**6** 

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

 0.08 - 2.5 mm²
 AWG 28 - 12 \*

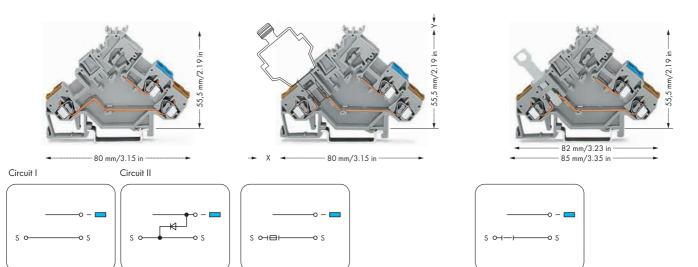
 125 V/5 A ②
 300 V, 6 AN

 250 V/6.3 A ②
 300 V, 15 A®

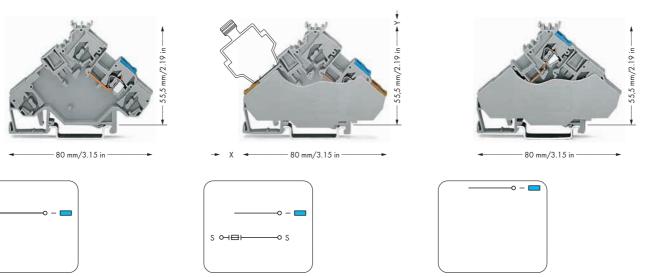
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

0.08 - **2.5** mm<sup>2</sup> 400 V/6 kV/3 **1** I<sub>N</sub> 10 A AWG 28 - 12 \* 300 V, 10 A**N** 300 V, 15 A®

Terminal block width 5 mm / 0.197 in  $\boxed{\phantom{0}}$  8 - 9 mm / 0.33 in  $\bigcirc$ 



	Item No.	Pack. Unit		Item No.	Pack. Unit		Item No.	Pack. Unit
Actuator termin	al block		Actuator terminal blo	ck,		Actuator discon	nect terminal block,	
			for fuse plugs,			for interruption of	line	
			for fuse protection of lin	e voltage, without e	end plate	·		
Circuit I	280-562	50		280-565 4	50		280-566	50
Actuator termin	al block,							
with recovery dio	de 1N4007							
Circuit II	280-562/281-411	50						



	Item No.	Pack. Unit		Item No.	Pack. Unit		Item No.	Pack. Unit
Actuator su	upply terminal block,		Actuator terminal block, for fuse plugs,		Actuator supply terminal block,			
power supp	ly form actuator side		for fuse protecti	ion of line voltage,		power supply from control panel side,		
			with gray end p	plate		with end plate		
	280-592	10		280-565/280-319	50		280-568	20
			with orange en	d plate				
				280-565/280-321	50	Technical data:		
						400 V/6 kV/3		I <sub>N</sub> 20 A



Actuator terminal block paired with a magnetic valve

- AWG 12: THHN, THWN
- 1 400 V/250 V = rated voltage 6 kV/4 kV = rated surge voltage 3 = pollution degree

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

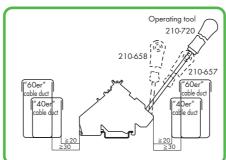
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- 3 Strip length, see packaging or instructions.
- 4 For empty component plug housings, see interface modules

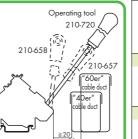
x = 12 mm/0.472 inFor fuse plugs, see page 248 x = 15.5 mm/0.61 in y = 10 mm/0.394 in

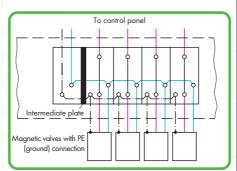
See application notes for: Insulation stop, page 293





Min. mounting distance - terminal blocks to cable duct





Power supply from control panel side

#### 280 Series Accessories

Appropriate marking system: WMB (see Section 13)

<b>End and intermediate plate,</b> I mm thick,							
	for triple-deck	k terminal block	s				
	orange	280-321	100 (4x25)				
	gray	280-319	100 (4x25)				

#### Insulation stop,

6	5 pcs/stri	ρ,	
40999	0.08 - 0.2	mm² "s" (0.14 m	m² "f-st")
	white	280-470	200 (8x25)

#### Insulation stop,

5 4999		5 pcs/strip,		
	49999	0.25 - 0.5 m	nm²	
		light gray	280-471	200 (8x25

### Insulation stop,

	dark gray	280-472	200 (8x25)
***	0.75 - 1 mm <sup>2</sup>		
6	5 pcs/strip,		

Adjacent	lomb	er,	msu	латеа,
			- 1	

Screwless end	leton		
11			
4.6	gray	280-402	200 (8x25
III .	$I_N = I_N$ ter	rminal block	

#### for DIN 35 rail.

Screwless er	nd stop,		
	gray	249-116	100 (4x25)
212	6 mm wide		
	101 111 4 00	ruii,	

	for DIN 35 rail,
- OTTO	10 mm wide

gray	249-117	50 (2×25)



### Actuator Terminal Blocks with Ground Connection 2.5 mm<sup>2</sup> for Magnetic Valves, **Servomotors** 280 Series

0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3; 20 A 1 2 300 V, 15 A 1 250 V/4 kV/3; 20 A **1 2** 300 V, 15 A**6** 

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

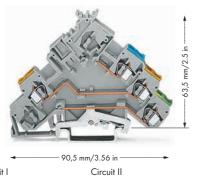
0.08 - 2.5 mm<sup>2</sup> AWG 28 - 12 \* 125 V/5 A 2 300 V, 6 A 94 250 V/6.3 A 2 300 V, 15 A@

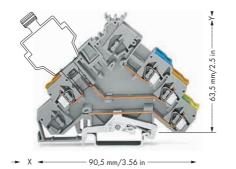
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 3

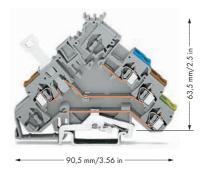
0.08 - 2.5 mm<sup>2</sup> 400 V/6 kV/3 1 I<sub>N</sub> 10 A

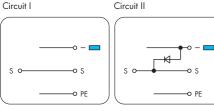
AWG 28 - 12 \* 300 V, 10 A 94 300 V, 15 A®

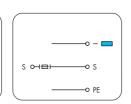
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in **3** 

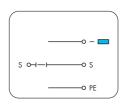




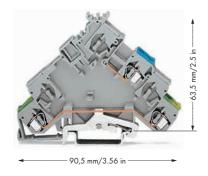


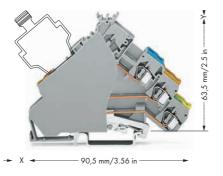


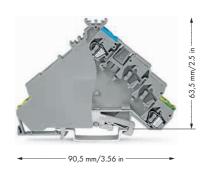


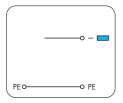


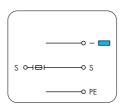
	Item No.	Pack. Unit		Item No.	Pack. Unit		Item No.	Pack. Unit
Actuator terminal block with ground connection		Actuator tern	ninal block with ground co	nnection,	Actuator disconnect terminal block with ground con-			
			for fuse plugs,			nection,		
			for fuse protec	tion of line voltage, without er	nd plate	for interruption	of line	
Circuit I	280-572	50		280-575	50		280-576	50
Actuator termin	al block with ground con	nection,						
with recovery dio	de 1N4007							
Circuit II	280-572/281-411	50						











PEO-	

	Item No.	Pack. Unit		Item No.	Pack. Unit		Item No.	Pack. Unit
Actuator supply terminal block with ground connec-			Actuator terminal block with ground connection,			Actuator supply terminal block with ground connec-		
tion,		for fuse plugs, for fuse	protection of line voltage	e,	tion, power supply from control panel side, with end plat		ide, with end plate	
power supply	form actuator side		with gray end plate					
	280-593	10	0	280-575/280-320	50		280-578	20
			with orange end plate	)				
				280-575/280-323	50	Technical data:		
						400 V/6 kV/3		I <sub>N</sub> 20 A



Actuator terminal block paired with a magnetic valve with ground connection

- AWG 12: THHN, THWN
- 1 400 V/250 V = rated voltage 6 kV/4 kV = rated surge voltage 3 = pollution degree

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

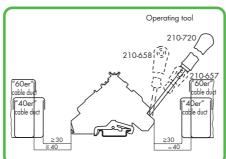
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- 3 Strip length, see packaging or instructions.
- 4 For empty component plug housings, see interface modules

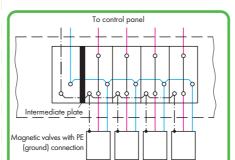
x = 12 mm/0.472 inFor fuse plugs, see page 248 x = 15.5 mm/0.61 in y = 10 mm/0.394 in

See application notes for: Insulation stop, page 293





Min. mounting distance - terminal blocks to cable duct



Power supply from control panel side

#### 280 Series Accessories

Appropriate marking system: WMB (see Section 13)

End and intermediate plate, 1 mm thick, for quadruple-deck terminal blocks

280-323 100 (4x25) orange 280-320 100 (4x25)

Insulation stop,

6 5 pcs/strip, 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st") 280-470 200 (8x25) white

Insulation stop,

5 pcs/strip, 0.25 - 0.5 mm<sup>2</sup> light gray 280-471 200 (8x25)

Insulation stop,

5 pcs/strip, 0.75 - 1 mm<sup>2</sup>

dark gray 280-472 200 (8x25) Adjacent jumper, insulated,

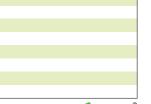
 $I_N = I_N$  terminal block 280-402 200 (8x25) gray

Screwless end stop,

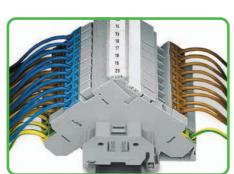
for DIN 35 rail, 6 mm wide 249-116 100 (4x25) gray

Screwless end stop, for DIN 35 rail,

10 mm wide 249-117 50 (2x25) gray







### **Actuator LED Terminal Blocks** Actuator LED Terminal Blocks with Ground Connection 2.5 mm<sup>2</sup> 280 Series



0.08 - 2.5 mm<sup>2</sup> 24 VDC 1

20 A

AWG 28 - 12 \* 24 V, 15 A 🗫 300 V, 15 A@

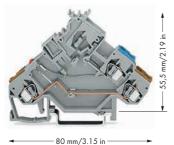
Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 2

0.08 - 2.5 mm<sup>2</sup> 24 VDC 1 20 A

AWG 28 - 12 \* 24 V, 15 A 🕦 300 V, 15 A@

Terminal block width 5 mm / 0.197 in

8 - 9 mm / 0.33 in 2



Item No

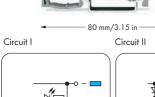


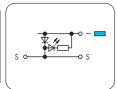
Circuit II

Item No

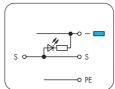
AWG 12: THHN, THWN

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

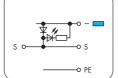


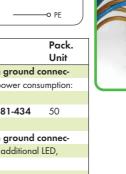


Pack.



Circuit I





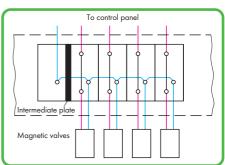


	irem ivo.	Unit		item No.	Unit	
Actuator LED	terminal block, additional l	ED, 24 VDC,	Actuator LED te	rminal block with groun	d connec-	
LED power cor	nsumption: 4.8 mA		tion, additional L	ED, 24 VDC, LED power o	onsumption:	
			4.8 mA			
Circuit I	280-562/281-434	<b>4</b> 50	Circuit I	280-572/281-434	<b>4</b> 50	
Actuator LED	terminal block, with recove	ry diode	Actuator LED te	rminal block with groun	d connec-	
1N4007,			tion, with recover	ry diode 1N4007, additio	nal LED,	
red LED, 24 VI	DC, LED power consumption:	4.8 mA	24 VDC,			
			LED power consumption: 4.8 mA			
Circuit II	280-562/281-420	50	Circuit II	280-572/281-420	50	
Item-Spec	ific Accessories		Item-Specifi	c Accessories		
End and inter	rmediate plate, 1 mm thick,		End and interm	ediate plate, 1 mm thick,		
	for triple-deck terminal bloc	·ks	1	for quadruple-deck termina	l blocks	
	ioi iripie-deck leitiliidi bioc					
	orange 280-321	100 (4x25)		orange <b>280-323</b>	100 (4x25	

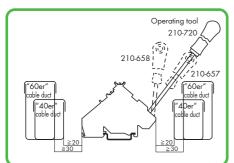
#### 280 Series Accessories

Appropriate marking system: WMB (see Section 13)

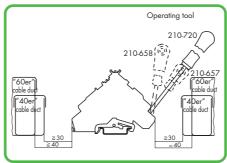
Ins	ulation sto	p,			Adjacent jun	<b>per,</b> insulated	l,	
3	3 5 pcs/strip,			100	$I_N = I_N$ terminal block			
	40999	0.08 - 0.2 mn	n² "s" (0.14 m	nm² "f-st")	44	gray	280-402	200 (8×25)
		white	280-470	200 (8x25)	JUL.			



Power supply from control panel side







Min. mounting distance - terminal blocks to cable duct

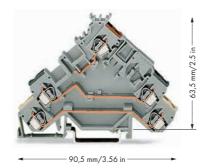
Certification organizations can be found in the overview on pages 622 and 623.

# Actuator Terminal Blocks 2.5 mm<sup>2</sup> for Actuators with Shield Connection and Actuators with Shield Conductor Through Contact for Thermocouples, etc. – 280 Series

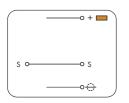
0.08 - **2.5** mm<sup>2</sup> AWG 28 - 12 \* 400 V/6 kV/3 **1** 300 V, 15 A**N** 

Terminal block width 5 mm / 0.197 in 8 - 9 mm / 0.33 in 2

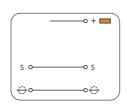




- \* AWG 12: THHN, THWN
- 1 400 V = rated voltage 6 kV = rated surge voltage 3 = pollution degree (also see Section 14)
- 2 Strip length, see packaging or instructions.



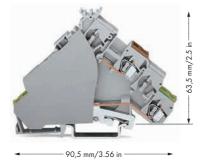
8 - 9 mm / 0.33 in 2

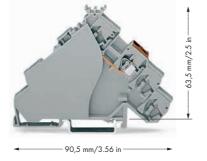


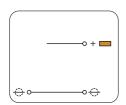
	Item No.	Pack. Unit		Item No.	Pack. Unit
Actuator terminal block with shield connection			Actuator termin	nal block with shield co	nductor
			through contac	t	
	280-585	50		280-583	50
Item-specific	accessories,		Item-specific ac	cessories,	
see page 263			see page 263		

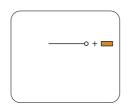


Green-yellow clamping unit = shield contact











White clamping unit = shield conductor through contact

	Item No.	Pack. Unit		Item No.	Pack. Unit	
Actuator supply	terminal block with s	hield connec-	Actuator s	supply terminal block,		
tion,			power supp	oly from control panel side,		
power supply from	control panel side,		with end plate,			
with end plate			for actuato	rs with shield conductor throug	h contact	
	280-586	50		280-515	20	
Item-specific acce	essories,		Item-speci	fic accessories,		
see page 263			see page 2	263		
0 16 1				1.400		

