

**Variable resistor terminal blocks, with balancing resistance**  
0.5 Ohm - 20 Ohm, 0.75 W  
gray 280-615/281-412 ②

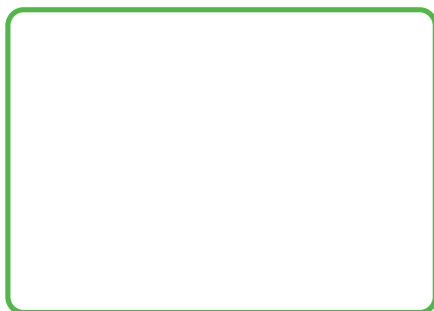
0.5 Ohm - 20 Ohm, 0.75 W  
blue 280-645/281-412 ② ③

20 Ohm - 1 kOhm, 0.75 W  
gray 280-615/281-428 ②



**End plates for variable resistor terminal blocks**  
orange 280-331 100 (4x25)  
gray 280-330 100 (4x25)

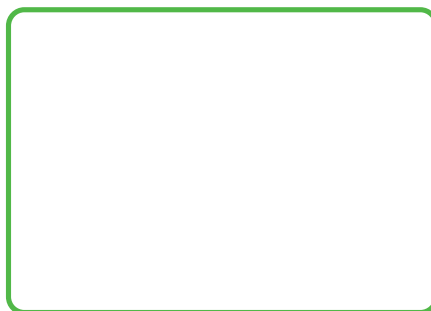
For terminal blocks with side marking (e.g., 280-601),  
see [www.wagocatalog.com](http://www.wagocatalog.com)



**Variable resistor terminal blocks**  
Trimming circuit for differential pressure

② Other resistors on request

③ Suitable for Ex i applications in connection with the  
280-331 intermediate plate



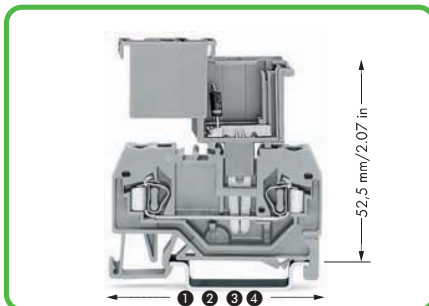
**Circuit diagram**  
Variable resistor terminal block with balancing resistance

① Strip length, see packaging or instructions.

<b>281 Series Accessories</b>			
Appropriate marking system: WMB (see Section 13)			
<b>Insulation stop,</b>			
	5 pcs/strip, 0.08 - 0.2 mm² "s" (0.14 mm² "f-st") white	<b>281-470</b>	200 (8x25)
<b>Insulation stop,</b>			
	5 pcs/strip, 0.25 - 0.5 mm² light gray	<b>281-471</b>	200 (8x25)
<b>Insulation stop,</b>			
	5 pcs/strip, 0.25 - 1.5 mm² dark gray	<b>281-472</b>	200 (8x25)
<b>Comb-style jumper bar, insulated,</b>			
	I <sub>N</sub> = I <sub>N</sub> terminal block		
	2-way	<b>281-482</b>	100 (4x25)
	3-way	<b>281-483</b>	100 (4x25)
	5-way	<b>281-485</b>	100 (4x25)
	10-way	<b>281-490</b>	50 (2x25)
<b>Alternate comb-style jumper bar,</b>			
	insulated, I <sub>N</sub> = I <sub>N</sub> terminal block		
	2-way	<b>281-492</b>	100 (4x25)
<b>Operating tool, of insulating material</b>			
	2-way	<b>280-432</b>	1
	3-way	<b>280-433</b>	1
	5-way	<b>281-440</b>	1
<b>Wire commoning chain, 50 connections,</b>			
	insulated, I <sub>N</sub> 8 A black	<b>210-103</b>	1
<b>Wire commoning chain, 50 connections,</b>			
	insulated, I <sub>N</sub> 8 A blue	<b>210-123</b>	1

# Pluggable Diode Modules on Through Terminal Blocks 2.5 mm<sup>2</sup> 280 Series

Diode module  
with 1N4007 diode  
 $U_N$  250 V,  $U_{RM}$  1000 V  
 $I_N$  1 A  
Plug width 10 mm / 0.394 in



Similar to a push-in jumper, these diode modules are simply pushed into the contact slots of the current bars for two adjacent through terminal blocks.

This offers the following advantages:

- The modules are suitable for all 280 Series through terminal blocks.
- Easily retrofit terminal blocks with diode modules.

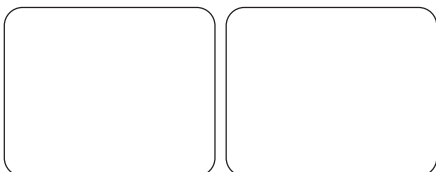
For terminal blocks with side marking, see [www.wagocatalog.com](http://www.wagocatalog.com)

\* AWG 12: THHN, THWN

- 1 Length of 280-901: 53 mm / 2.09 in  
2-conductor through terminal block, front-entry
- 2 Length of 280-681: 64 mm / 2.52 in  
3-conductor through terminal block, front-entry
- 3 Length of 280-833: 75 mm / 2.95 in  
4-conductor through terminal block, front-entry
- 4 Length of 280-101: 42.5 mm / 1.67 in  
2-conductor through terminal block, side-entry
- 5 See application notes for:  
Insulation stop, page 199  
Comb-style jumper bar, page 200  
Operating tool, page 200

Circuit I

Circuit II



Further advantages:

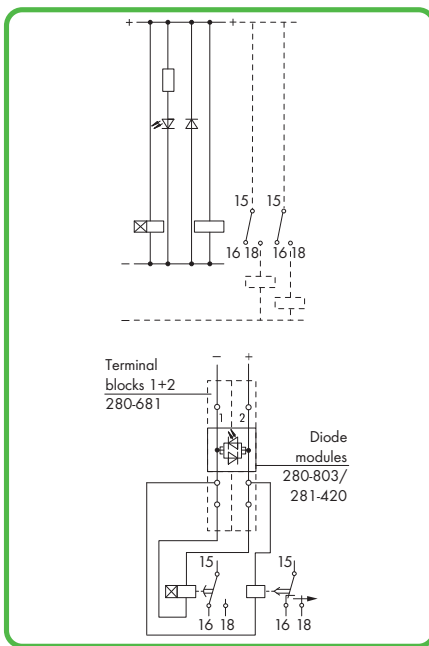
- Separation into functional and wiring level
- Modules can be replaced quickly by other types of modules

Item No.	Pack. Unit
Diode module, with 1N4007 diode, 10 mm wide ● 280-803/281-411	50
Diode module, with recovery diode 1N4007, additional LED, 10 mm wide ● 24 VDC 280-803/281-420	50
● 48 VDC 280-803/281-421	50

## Through Term. Blocks and Accessories

Appropriate marking system:  
WMB (see Section 13)

2-conductor through terminal block, 1 0.08 - 2.5 mm <sup>2</sup> / AWG 28 - 12 *, Terminal block width 5 mm / 0.197 in gray 280-901	100
End and intermediate plate, 2.5 mm thick orange 280-309	100 (4x25)
gray 280-308	100 (4x25)
3-conductor through terminal block, 2 0.08 - 2.5 mm <sup>2</sup> / AWG 28 - 12 *, Terminal block width 5 mm / 0.197 in gray 280-681	100
End and intermediate plate, 2.5 mm thick orange 280-326	100 (4x25)
gray 280-324	100 (4x25)
4-conductor through terminal block, 3 0.08 - 2.5 mm <sup>2</sup> / AWG 28 - 12 *, Terminal block width 5 mm / 0.197 in gray 280-833	100
End and intermediate plate, 2.5 mm thick orange 280-315	100 (4x25)
gray 280-314	100 (4x25)



Free-wheeling diode and voltage check

## Accessories

2-conductor through terminal block, 4 0.08 - 2.5 mm <sup>2</sup> / AWG 28 - 12 *, Terminal block width 5 mm / 0.197 in gray 280-101	100
End and intermediate plate, 2.5 mm thick orange 280-302	100 (4x25)
gray 280-301	100 (4x25)
Insulation stop, 5 5 pcs/strip, 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st") white 280-470	200 (8x25)
Insulation stop, 5 5 pcs/strip, 0.25 - 0.5 mm <sup>2</sup> light gray 280-471	200 (8x25)
Insulation stop, 5 5 pcs/strip, 0.75 - 1 mm <sup>2</sup> dark gray 280-472	200 (8x25)
Adjacent jumper, insulated, I <sub>N</sub> = I <sub>N</sub> terminal block gray 280-402	200 (8x25)
Wire commoning chain, 50 connections, insulated, I <sub>N</sub> 8 A black 210-103	1
Wire commoning chain, 50 connections, insulated, I <sub>N</sub> 8 A blue 210-123	1