

# Pluggable Modules for Receptacle Terminal Blocks Series 286

<b>Relays</b>  <b>①</b> Module width 10 mm / 0.394 in <b>②</b> Module width 15 mm / 0.591 in	<b>Relays</b>  <b>②</b> Module width 15 mm / 0.591 in <b>③</b> Module width 20 mm / 0.787 in <b>④</b> Module width 35 mm / 1.378 in	<b>Optocouplers</b>  <b>②</b> Module width 15 mm / 0.591 in
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Item No.	PU	Item No.	PU	Item No.	PU
	<b>① 1 make contact</b> <b>286-364</b> 1 DC 24 V / 5 A <b>286-365</b> 1 DC 48 V / 5 A <b>286-366</b> 1 DC 60 V / 5 A		<b>② 1 changeover contact</b> <b>286-502</b> 1 AC/DC 5 V / 7 A <b>286-504</b> 1 AC/DC 24 V / 7 A <b>286-508</b> 1 AC/DC 230 V / 7 A		<b>② Input DC 24 V Negative switching</b> <b>286-700</b> 1 DC 5 V / 500 mA <b>286-701</b> 1 DC 15 V / 500 mA <b>286-702</b> 1 DC 24 V / 500 mA
	<b>① 1 make contact</b> <b>286-564</b> 1 AC 24 V / 5 A <b>286-566</b> 1 AC 115 V / 5 A <b>286-567</b> 1 AC 230 V / 5 A		<b>③ 2 changeover contacts</b> <b>286-310</b> 1 DC 5 V / 7 A <b>286-312</b> 1 DC 24 V / 7 A <b>286-316</b> 1 DC 230 V / 7 A		<b>② Input DC 24 V Positive switching</b> <b>286-750</b> 1 DC 5 V / 500 mA <b>286-751</b> 1 DC 15 V / 500 mA <b>286-752</b> 1 DC 24 V / 500 mA
	<b>① 1 break contact</b> <b>286-368</b> 1 DC 24 V / 5 A <b>286-369</b> 1 DC 48 V / 5 A <b>286-370</b> 1 DC 60 V / 5 A		<b>③ 2 changeover contacts</b> <b>286-510</b> 1 AC 5 V / 7 A <b>286-512</b> 1 AC 24 V / 7 A <b>286-516</b> 1 AC 230 V / 7 A		<b>② Input AC 230 V Negative switching</b> <b>286-704</b> 1 DC 5 V / 500 mA <b>286-706</b> 1 DC 15 V / 500 mA <b>286-708</b> 1 DC 24 V / 500 mA
	<b>① 1 break contact</b> <b>286-568</b> 1 AC 24 V / 5 A		<b>④ 4 changeover contacts</b> <b>286-375</b> 1 DC 24 V / 4 A		<b>② Input AC 230 V Positive switching</b> <b>286-754</b> 1 DC 5 V / 500 mA <b>286-756</b> 1 DC 15 V / 500 mA <b>286-758</b> 1 DC 24 V / 500 mA
	<b>② 1 changeover contact</b> <b>286-302</b> 1 DC 5 V / 7 A <b>286-304</b> 1 DC 24 V / 7 A <b>286-308</b> 1 DC 230 V / 7 A		<b>④ 4 changeover contacts</b> <b>286-578</b> 1 AC 110/120 V / 4 A <b>286-579</b> 1 AC 230 V / 4 A		<b>② Input DC 24 V</b> <b>286-720</b> 1 DC 24 V / 2 A <b>286-721</b> 1 DC 24 V / 5 A

## Accessories, Series 286

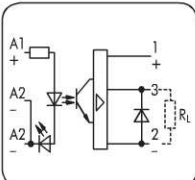
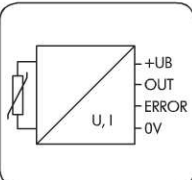
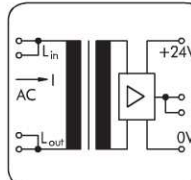
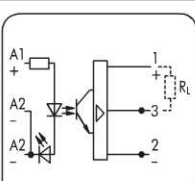
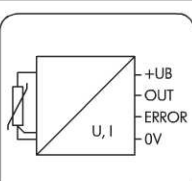
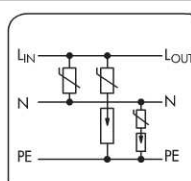
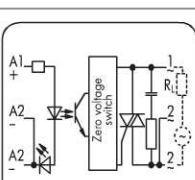
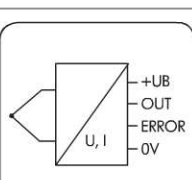
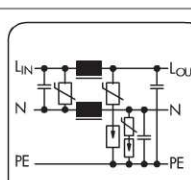
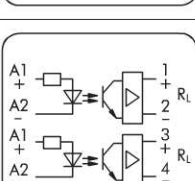

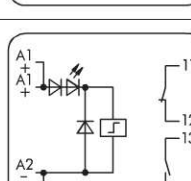
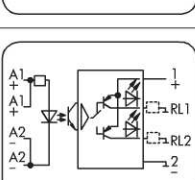
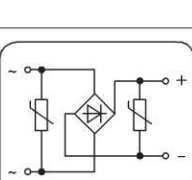
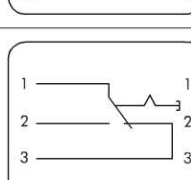
Appropriate marking systems: **WSB/WMB**



Terminal block for pluggable modules 0.08 - 2.5 mm <sup>2</sup> / AWG 28 - 14  Stripped length: 8 - 9 mm / 0.33 in	with 2-conductor terminal blocks, orange separator	with 4-conductor terminal blocks, orange separator
	12 mm/0.472 in wide <b>①</b>	12 mm/0.472 in wide <b>①</b>
	17 mm/0.67 in wide <b>②</b>	17 mm/0.67 in wide <b>②</b>
	22 mm/0.86 in wide <b>③</b>	22 mm/0.86 in wide <b>③</b>
		37 mm/1.45 in wide <b>④</b>
	<b>280-618</b> 1	<b>280-608</b> 1
	<b>280-619</b> 1	<b>280-609</b> 1
	<b>280-638</b> 1	<b>280-628</b> 1
		<b>280-636</b> 1

<p><b>Optocouplers</b></p> <p>② Module width 15 mm / 0.591 in ③ Module width 20 mm / 0.787 in</p>	<p><b>Temperature transducers</b> <b>Bridge rectifier</b></p> <p>② Module width 15 mm / 0.591 in ③ Module width 20 mm / 0.787 in</p>	<p><b>Surge suppression devices</b> <b>Latching relays</b> <b>Switching module</b></p> <p>② Module width 15 mm / 0.591 in ③ Module width 20 mm / 0.787 in</p>
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Item No.	PU	Item No.	PU	Item No.	PU
 <p>② <b>Input DC 24 V</b> <b>Positive switching</b> <b>286-723</b> 1 DC 24 V / 4 A</p>	1	 <p>③ <b>Temperature transducer, 2-wire</b> <b>286-860</b> 1 0 - 10 V <b>286-861</b> 1 0 - 20 mA <b>286-862</b> 1 4 - 20 mA</p>	1	 <p>③ <b>AC current flow monitoring module</b> AC 80 mA - 6 A <b>286-661</b> 1</p>	1
 <p>② <b>Output DC 110 V</b> <b>Negative switching</b> <b>286-726</b> 1 DC 5 V <b>286-728</b> 1 DC 12 V <b>286-730</b> 1 DC 24 V</p>	1	 <p>③ <b>Temperature transducer, 3-wire</b> <b>286-870</b> 1 0 - 10 V <b>286-871</b> 1 0 - 20 mA <b>286-872</b> 1 4 - 20 mA</p>	1	 <p>② <b>Surge suppression</b> Single-stage suppression <b>286-836</b> 1 AC/DC 24 V <b>286-835</b> 1 AC 230 V <b>286-835/115-000</b> 1 AC 115 V</p>	1
 <p>② <b>Output AC 230 V</b> <b>286-732</b> 1 DC 5 V <b>286-733</b> 1 DC 12 V <b>286-734</b> 1 DC 24 V</p>	1	 <p>③ <b>Temperature transducer</b> Thermocouple J: 0-750 °C <b>286-863</b> 1 0 - 10 V <b>286-865</b> 1 0 - 20 mA <b>286-867</b> 1 4 - 20 mA</p>	1	 <p>③ <b>Surge suppression</b> Two-stage suppression <b>286-843</b> 1 AC 110/120 V <b>286-841</b> 1 DC 230 V <b>286-842</b> 1 AC 230 V</p>	1
 <p>③ <b>2 inputs</b> <b>2 x DC 24 V</b> <b>286-792</b> 1 2 x DC 24 V / 2 x 500 mA</p>	1	 <p>③ <b>Temperature transducer</b> Thermocouple K: 0-1000 °C <b>286-864</b> 1 0 - 10 V <b>286-866</b> 1 0 - 20 mA <b>286-868</b> 1 4 - 20 mA</p>	1	 <p>③ <b>Latching relay</b> 1 break and 1 make contact <b>286-571</b> 1 DC 24 V <b>286-570</b> 1 AC 230 V (no illustration)</p>	1
 <p>③ <b>Input DC 24 V</b> 2 inverted outputs <b>286-790</b> 1 2 x DC 24 V / 500 mA</p>	1	 <p>② <b>Bridge rectifier, with varistor protection</b> <b>286-830</b> 1 AC 24 V / 1 A <b>286-840</b> 1 AC 250 V / 1 A</p>	1	 <p>② <b>Switching module, with changeover rocker switch</b> <b>286-895</b> 1  with momentary switch <b>286-896</b> 1</p>	1

**Accessories, Series 286**

Appropriate marking systems: **WSB/WMB**

**Dimensions**

	Terminal block for pluggable modules	with 4-conductor terminal blocks, marker plate			Entire height from upper-edge of carrier rail	
	0.08 - 2.5 mm <sup>2</sup> / AWG 28 - 14	15 mm/0.59 in wide ①	<b>280-762</b> 1			
	Stripped length: 8 - 9 mm / 0.33 in	20 mm/0.79 in wide ②	<b>280-763</b> 1			X = 2-cond. 50 mm/1.97 in 4-cond. 73 mm/2.87 in
		25 mm/0.98 in wide ③	<b>280-764</b> 1			



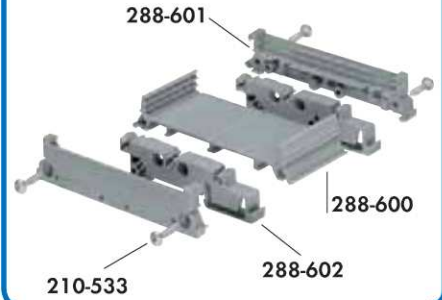
# Mounting Carriers for DIN-Rail Mounting PCBs Series 288

Mounting carrier, type 1, 85 mm/3.34 in wide, for DIN-rail mounting of 71.2 mm/2.8 in wide PCBs

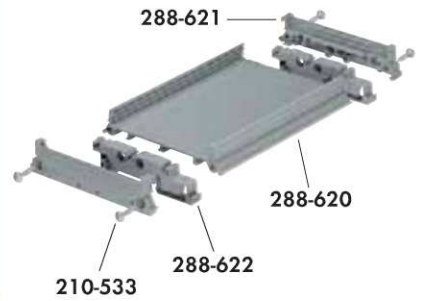
Mounting carrier, type 2, 106 mm/4.17 in wide, for DIN-rail mounting of 100 mm/3.93 in wide PCBs



## Mounting Carrier, Type 1



## Mounting Carrier, Type 2



Item No.	PU	Item No.	PU
<b>Lateral cover, type 1,</b>		<b>Lateral cover, type 2,</b>	
small, 6.35 mm/0.25 in thick	288-601 1	small, 8.75 mm/0.34 in thick	288-621 1
Fixing foot for DIN 35 rail	288-602 1	Fixing foot for DIN 35 rail	288-622 1
<b>Rail-mount profile, type 2,</b>		<b>Rail-mount profile, type 2,</b>	
1 m/1'1" long	288-600 1	1 m/1'1" long	288-620 1
		<b>Lateral cover, type 2,</b>	
		large, 8.75 mm/0.34 in thick	288-626 1
		<b>Cover, type 2, 1 mm/1'1" long</b>	288-627 1
<b>Phillips screw, 2.9 x 13</b>	210-533 25	<b>Phillips screw, 2.9 x 13</b>	210-533 25
2 pcs per lateral cover. Can be used with a module length of 39 mm/1.53 in or higher. Side covers must be riveted for smaller modules.		2 pcs per lateral cover. Can be used with a module length of 39 mm/1.53 in or higher. Side covers must be riveted for smaller modules.	
Rivet length depends on module length. Rivets are not part of our product line.		Rivet length depends on module length. Rivets are not part of our product line.	

### Accessories, Series 288

Length of PCB: L1  
 Length of rail-mount profile: L2 = L1 - 11 mm/0.43 in  
 Mounting carrier length: L3 = L1 + 2 mm/0.078 in

For lateral cover, type 1, 6.35 mm/0.25 in thick.

The free space between profile and PCB is 5 mm/0.19 in when using the upper groove.

Length of PCB: L1  
 Length of rail-mount profile: L2 = L1 - 15.8 mm/0.62 in  
 Mounting carrier length: L3 = L1 + 2 mm/0.078 in  
 Cover length: L4 = L1

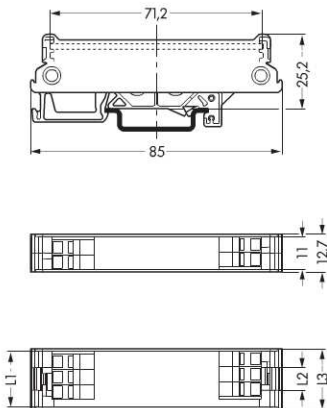
For lateral cover, type 2, 8.75 mm/0.34 in thick.

The free space between profile and PCB is 5 mm/0.19 in.

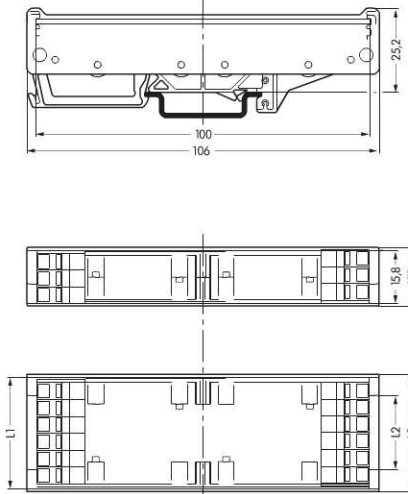
## Mounting Carrier, Type 2, high, with cover



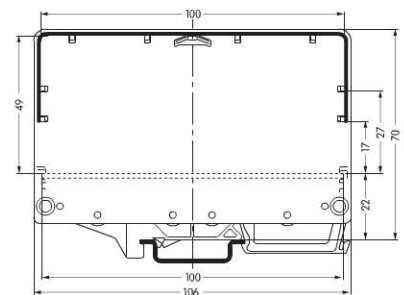
### Mounting Carrier, Type 1



### Mounting Carrier, Type 2, low



### Mounting Carrier, Type 2, high



# Empty Component Plug Housings for Building Custom Circuits Series 280 and 286

<b>Plug width</b> 5 mm / 0.197 in 10 mm / 0.394 in  <b>250 V/4 kV/3 6 A max.</b>	<b>Plug width</b> 10 mm / 0.394 in 15 mm / 0.591 in 20 mm / 0.787 in 25 mm / 0.984 in  <b>250 V/4 kV/3 6 A max.</b>	<b>Dimensions (in mm)</b>
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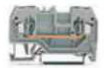










Type 4 3 2 1



Type 12 11 10 9

Type	Item No.	PU	Type	Item No.	PU
<b>Empty component plug housing</b>			<b>Empty component plug housing</b>		
<b>Type 1</b>	<b>280-801</b>	100	<b>Type 9</b>	<b>286-110</b>	1
2-pole, 5 mm / 0.197 in wide, inside dimensions WxHxD: (3.2x15x15) mm/(0.126x0.591x0.591) in			4-pole, 10 mm / 0.394 in wide		
<b>Type 2</b>	<b>280-802</b>	50	<b>Type 10</b>	<b>286-111</b>	1
2-pole, 10 mm / 0.394 in wide, inside dimensions WxHxD: (8.2x15x15) mm/(0.323x0.591x0.591) in			6-pole, 15 mm / 0.591 in wide		
<b>Type 3</b>	<b>280-804</b>	50	<b>Type 11</b>	<b>286-112</b>	1
4-pole, 10 mm / 0.394 in wide, inside dimensions WxHxD: (8.2x15x15) mm/(0.323x0.591x0.591) in			8-pole, 20 mm / 0.787 in wide		
<b>Empty component plug for through term. blocks</b>			<b>Type 12</b> <b>286-113</b> 1		
<b>Type 4</b>	<b>280-803</b>	50	10-pole, 25 mm / 0.984 in wide		
2-pole, 10 mm / 0.394 in wide, inside dimensions WxHxD: (8.2x15x15) mm/(0.323x0.591x0.591) in			For PCB dimensions and component height, see drawing and table.		

## Accessories, Series 280 and 286

<b>2-conductor terminal block, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-916</b> 100	<b>Terminal block for pluggable modules, 2-conductor</b>  terminal block, polarized, with orange separator 0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in
<b>3-conductor terminal block, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-610</b> 100	<b>4-pole, 12 mm/0.47 in wide</b> <b>280-618</b> 1 <b>6-pole, 17 mm/0.67 in wide</b> <b>280-619</b> 1 <b>8-pole, 22 mm/0.86 in wide</b> <b>280-638</b> 1 <b>10-pole, 27 mm/1.06 wide</b> <b>280-639</b> 1
<b>4-conductor terminal block, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-686</b> 100	<b>Terminal block for pluggable modules, 4-conductor</b>  terminal block, polarized, with orange separator 0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in
<b>2-cond. through term. block, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-901</b> 100	<b>4-pole, 12 mm/0.47 in wide</b> <b>280-608</b> 1 <b>6-pole, 17 mm/0.67 in wide</b> <b>280-609</b> 1 <b>8-pole, 22 mm/0.86 in wide</b> <b>280-628</b> 1 <b>10-pole, 27 mm/1.06 wide</b> <b>280-629</b> 1
<b>3-cond. through term. block, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-681</b> 100	<b>1-conductor/1-conductor receptacle terminal block</b>  for pluggable modules, with orange separator 0.08 - 4 mm <sup>2</sup> /AWG 28 - 12  8 - 9 mm / 0.33 in
<b>4-cond. through term. block, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-833</b> 100	<b>4-pole, 11.1 mm/0.43 in wide</b> <b>769-192/769-319</b> 10 <b>6-pole, 16.1 mm/0.63 in wide</b> <b>769-193/769-319</b> 5 <b>8-pole, 21.1 mm/0.83 in wide</b> <b>769-194/769-319</b> 5 <b>10-pole, 26.1 mm/1.02 in wide</b> <b>769-195/769-319</b> 5
<b>2-cond. term. block, side-entry, 5 mm/0.197 in wide</b>  0.08 - 2.5 mm <sup>2</sup> /AWG 28 - 14  8 - 9 mm / 0.33 in gray <b>280-101</b> 100	<b>Pliers, for removing electronic housing cover</b>  <b>210-492</b> 1

