



wieland

Electrical  
Connections



**flare** MOVE

## Relay modules

Modular design



# Relay modules

## Plug-in relays

# flare MOVE



Overall width: 15.8 mm  
plug-in relay  
single changeover contact /  
2 changeover contact

Dimensions (mm): B x H x T  
15.8 x 78.6 x 76

**Coil voltage 12 V AC/DC**  
**Output 250 V AC / 10 A**  
**1 Changeover contact**  
Approvals: , in preparation

**Coil voltage 24 V AC/DC**  
**Output 250 V AC / 8 A**  
**2 Changeover contact**  
Approvals: , in preparation

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
<b>Relay module 12V DC; 1U; AgNi; 10A</b>	Flare move 12DC1W10A	80.010.4701.2	10			
<b>Relay module 12V AC; 1U; AgNi; 10A</b>	Flare move 12AC1W10A	80.010.4711.2	10			
<b>Relay module 24V DC; 2U; AgNi; 8A</b>				Flare move 24DC2W8A	80.010.5102.2	10
<b>Relay module 24V AC; 2U; AgNi; 8A</b>				Flare move 24AC2W8A	80.010.5312.2	10
<b>Relay module 115V AC; 1U; AgCdO; 16A</b>						
<b>Relay module 230V AC; 2U; AgNi; 10A</b>						
<b>Coil side (same for both contact materials)</b>	DC	AC		DC	AC	
Nominal operating voltage	12 V DC	12 V AC		24 V DC	24 V AC	
Maximum operating voltage	21 V DC	13.2 V AC		42 V DC	26.4 V AC	
Minimum operating voltage	8.8 V DC	9.6 V AC		17.5 V DC	19.2 V AC	
Nominal input current	41 mA	90.5 mA		22.2 mA	46 mA	
Nominal input capacity	0.5 W	1.2 VA		0.5 W	1.2 VA	
Operating range	(0.73 ... 1.75) U <sub>N</sub>	(0.8 ... 1.1) U <sub>N</sub>		(0.73 ... 1.75) U <sub>N</sub>	(0.8 ... 1.1) U <sub>N</sub>	
Connectable via plug-in jumper	8 Modules			8 Modules		
Status display	LED green			LED green		
<b>Switching characteristics</b>	<b>AgNi</b>			<b>AgNi</b>		
Maximum switching voltage	400 V AC*			250 V AC		
Nominal switching voltage	250 V AC			250 V AC		
Maximum switching current	10 A AC/DC			8 A		
Maximum switching capacity AC 1	2500 VA			2000 VA		
Maximum starting current	20 A (0.5 sec.)			15 A (0.5 sec.)		
Pickup/dropout delay (including chatter)	15 ms / 12 ms			15 ms / 12 ms		
Maximum switching frequency	10 Hz (without load); 0.5 Hz (at full load)			10 Hz (without load); 0.5 Hz (at full load)		
Contact material	AgNi			AgNi		
Minimum switchable voltage	5 V AC/DC			5 V AC/DC		
Minimum switchable current	5 mA AC/DC			5 mA AC/DC		
Minimum switching capacity	300 mW			300 mW		
Mechanical endurance AC/DC	2 x 10 <sup>7</sup>	1 x 10 <sup>7</sup>		1 x 10 <sup>7</sup>		
Electrical endurance AC 1	2 x 10 <sup>5</sup>	2 x 10 <sup>5</sup>		1.5 x 10 <sup>5</sup>		
Rated voltage	250 V			250 V		
Isolation voltage of input/output	3.6 kV <sub>eff.</sub> / 3			3.6 kV <sub>eff.</sub> / 2		
Overtoltage category	III			III		
Degree of pollution	3			2		
Ambient temperature	-40°C...+70°C			-40°C...+70°C		
Storage temperature	-40°C...+70°C			-40°C...+70°C		
Protection type/mounting rail	IP 20 / TS35			IP 20 / TS35		
Emitted interference/interference immunity						
Wire range of screw terminal: finely stranded/single core	0.25 mm <sup>2</sup> - 4 mm <sup>2</sup> / 0.25 mm <sup>2</sup> - 6 mm <sup>2</sup>			0.25 mm <sup>2</sup> - 4 mm <sup>2</sup> / 0.25 mm <sup>2</sup> - 6 mm <sup>2</sup>		
<b>Relay type</b>						
Relay 12 V DC; 1 Changeover contact; AgNi; 10 A		80.063.5031.2	10			
Screw holder for operating voltage 12 V DC		80.063.5036.1	10			
Relay 12 V AC; 1 Changeover contact; AgNi; 10 A		80.063.5041.2	10			
Screw holder for operating voltage 12 V AC		80.063.5036.1	10			
Relay 24 V DC; 2 Changeover contact; AgNi; 8A				80.063.5232.2	10	
Screw holder for operating voltage 24 V AC				80.063.5026.1	10	
Relay 24 V AC; 2 Changeover contact; AgNi; 8 A				80.063.5242.2	10	
Screw holder for operating voltage 24 V AC				80.063.5026.1	10	
<b>Accessories</b>	<b>Type</b>	<b>Part No.</b>	<b>Box Qty</b>	<b>Type</b>	<b>Part No.</b>	<b>Box Qty</b>
Variclip (plastic, black), retaining clip	VARICLIP	80.063.5009.1	20	VARICLIP	80.063.5009.1	20
Retaining clip (metal)	METALL	80.063.5019.1	20	METALL	80.063.5019.1	20
Comb shaped jumper for linking terminals A1, A2, continuous current 10A	KB SF48	80.063.5029.2	20	KB SF48	80.063.5029.2	20
Marker tag (plastic, white)	BZ SF48	80.063.5029.3	100	BZ SF48	80.063.5029.3	100

# flare



Overall width: 15.8 mm  
 plug-in relay  
 single changeover contact /  
 2 changeover contact

**Coil voltage 115 V AC**  
**Output 250 V AC / 16 A**  
**1 Changeover contact**  
 Approvals: , in preparation

**Coil voltage 230 V AC**  
**Output 250 V AC / 10 A**  
**1 Changeover contact**  
 Approvals: , in preparation

Dimensions (mm): B x H x T  
 15.8 x 78.6 x 76

Description	Type	Part No.	Box Qty	Type	Part No.	Box Qty
<b>Relay module 12V DC; 1U; AgNi; 10A</b>						
<b>Relay module 12V AC; 1U; AgNi; 10A</b>						
<b>Relay module 24V DC; 2U; AgNi; 8A</b>						
<b>Relay module 24V DC; 2U; AgNi; 8A</b>						
<b>Relay module 115V AC; 1U; AgCdO; 16A</b>	Flare move 115AC1W16	80.010.4915.3	10			
<b>Relay module 230V AC; 2U; AgNi; 10A</b>				Flare move 230AC1W10	80.010.4716.2	10
<b>Coil side</b>						
Nominal operating voltage	115 V AC (50/60 Hz)			230 V AC (50/60 Hz)		
Maximum operating voltage	121 V AC			253 V AC		
Minimum operating voltage	88 V AC			184 V AC		
Nominal input current	10.1 mA			6 mA		
Nominal input capacity	1.2 VA			1.2 VA		
Operating range	(0.8 ... 1.1) U <sub>N</sub>			(0.8 ... 1.1) U <sub>N</sub>		
Connectable via plug-in jumper	8 Modules			8 Modules		
Status display	LED green			LED green		
<b>Switching characteristics</b>	<b>AgCdO</b>			<b>AgNi</b>		
Maximum switching voltage	400 V AC*			400 V AC*		
Nominal switching voltage	250 V AC			250 V AC		
Maximum switching current	16 A**			10 A		
Maximum switching capacity AC 1	4000 VA			2500 VA		
Maximum starting current	30 A (0.5 sec.)			20 A (0.5 sec.)		
Pickup/dropout delay (including chatter)	15 ms / 12 ms			15 ms / 12 ms		
Maximum switching frequency	10 Hz (without load); 0.5 Hz (at full load)			10 Hz (without load); 0.5 Hz (at full load)		
Contact material	AgCdO			AgNi		
Minimum switchable voltage	10 V AC/DC			5 V AC/DC		
Minimum switchable current	5 mA AC/DC			5 mA AC/DC		
Minimum switching capacity	500 mW			300 mW		
Mechanical endurance AC/DC	1 x 10 <sup>7</sup>	1 x 10 <sup>7</sup>		1 x 10 <sup>7</sup>	2 x 10 <sup>7</sup>	
Electrical endurance AC 1	1 x 10 <sup>5</sup>	1 x 10 <sup>5</sup>		2 x 10 <sup>5</sup>		
Rated voltage	250 V			250 V		
Isolation voltage of input/output	3.6 kV <sub>eff.</sub> / 3			3.6 kV <sub>eff.</sub> / 3		
Overvoltage category	III			III		
Degree of pollution	3			3		
Ambient temperature	-40 °C...+70 °C			-40 °C...+70 °C		
Storage temperature	-40 °C...+70 °C			-40 °C...+70 °C		
Protection type/mounting rail	IP 20 / TS35			IP 20 / TS35		
Emitted interference/interference immunity						
Wire range of screw terminal: finely stranded/single core	0.25 mm <sup>2</sup> - 4 mm <sup>2</sup> / 0.25 mm <sup>2</sup> - 6 mm <sup>2</sup>			0.25 mm <sup>2</sup> - 4 mm <sup>2</sup> / 0.25 mm <sup>2</sup> - 6 mm <sup>2</sup>		
<b>Relay type</b>						
Relay 115 V AC; 1 Changeover contact; AgCdO; 16 A		80.063.5145.2	10			
Screw holder for operating voltage 115 V AC		80.063.5026.1	10			
Relay 230 V AC; 2 Changeover contact; AgNi; 10 A				80.063.5046.2	10	
Screw holder for operating voltage 230V AC				80.063.5026.1	10	
<b>Accessories</b>	<b>Type</b>	<b>Part No.</b>	<b>Box Qty</b>	<b>Type</b>	<b>Part No.</b>	<b>Box Qty</b>
Variclip (plastic, black), retaining clip	VARICLIP	80.063.5009.1	20	VARICLIP	80.063.5009.1	20
Retaining clip (metal)	METALL	80.063.5019.1	20	METALL	80.063.5019.1	20
Comb shaped jumper for linking terminals A1, A2, continuous current 10A	KB SF48	80.063.5029.2	20	KB SF48	80.063.5029.2	20
Marker tag (plastic, white)	BZ SF48	80.063.5029.3	100	BZ SF48	80.063.5029.3	100

# Relay modules

## Plug-in relays

# flare

## MOVE



Overall width: 6,2 mm  
Plug-in

Dimensions (mm): B x H x T  
6.2 x 88 x 76

**Coil voltage 12 V DC; AC/DC**  
**Output 250 V AC / 6 A**  
**1 Changeover contact**  
Approvals: in preparation

**Coil voltage 24 V DC; AC/DC**  
**Output 250 V AC / 6 A**  
**1 Changeover contact**  
Approvals: in preparation

Description	AgSnO <sub>2</sub>	AgSnO <sub>2</sub> + Au (5 μ)	Box Qty	AgSnO <sub>2</sub>	AgSnO <sub>2</sub> + Au (5 μ)	Box Qty
<b>12 V Relay module</b> <b>DC</b>	80.010.4501.0	80.010.4501.1	10			
<b>24 V Relay module</b> <b>DC</b>				80.010.4502.0	80.010.4502.1	10
<b>12 V Relay module</b> <b>AC / DC</b>	80.010.4521.0	80.010.4521.1	10			
<b>24 V Relay module</b> <b>AC / DC</b>				80.010.4522.0	80.010.4522.1	10
<b>Coil side</b>						
Nominal operating voltage	12 V DC	12 V AC / DC		24 V DC	24 V AC / DC	
Maximum operating voltage	14.4 V DC	13.2 V AC / DC		28.8 V DC	26.4 V AC / DC	
Minimum operating voltage	9.8 V DC	9.8 V AC / DC		18.2 V DC	19.2 V AC / DC	
Nominal input current	15.2 mA	19 mA		9.4 mA	12 mA	
Nominal input capacity AC / DC	0.2 W	0.25 V A		0.23 W	0.3 V A	
Operating range	(0.7 ... 2.2) U <sub>N</sub>	(0.85 ... 1.1) U <sub>N</sub>		(0.7 ... 2.2)U <sub>N</sub>	(0.85 ... 1.1) U <sub>N</sub>	
Connectable via plug-in jumper	20 Modules			20 Modules		
Status display	LED green			LED green		
<b>Switching characteristics</b>						
	<b>AgSnO<sub>2</sub></b>	<b>AgSnO<sub>2</sub> + Au (5 μ)</b>		<b>AgSnO<sub>2</sub></b>	<b>AgSnO<sub>2</sub> + Au (5 μ)</b>	
Maximum switching voltage	400 V AC			400 V AC		
Nominal switching voltage	250 V AC			250 V AC		
Maximum switching current	6 A AC / DC			6 A AC / DC		
Maximum switching capacity	1500 V A / 150 W			1500 V A / 150 W		
Maximum starting current	30 A (0.5 sec.)			30 A (0.5 sec.)		
Pickup/dropout delay (including chatter)	7 ms / 11 ms			7 ms / 11 ms		
Maximum switching frequency	20 Hz (without load); 0.1 Hz (at full load)			20 Hz (without load); 0.1 Hz (at full load)		
Contact material	<b>AgSnO<sub>2</sub></b>	<b>AgSnO<sub>2</sub> + Au (5 μ)</b>		<b>AgSnO<sub>2</sub></b>	<b>AgSnO<sub>2</sub> + Au (5 μ)</b>	
Minimum switchable voltage	12 V AC / DC	5 V AC / DC		12 V AC / DC	5 V AC / DC	
Minimum switchable current	10 mA AC / DC	2 mA AC / DC		10 mA AC / DC	2 mA AC / DC	
Minimum switching capacity	500 mW	50 mW		500 mW	50 mW	
Mechanical endurance	1 x 10 <sup>7</sup>			1 x 10 <sup>7</sup>		
Electrical endurance at 230 V AC / 6 A	6 x 10 <sup>4</sup>			6 x 10 <sup>4</sup>		
Rated voltage	250 V			250 V		
Isolation voltage of input/output	4 kV <sub>eff.</sub>			4 kV <sub>eff.</sub>		
Overvoltage category	III (in accordance with HD 625.1S1)			III (in accordance with HD 625.1S1)		
Degree of pollution	2 (in accordance with HD 625.1S1)			2 (in accordance with HD 625.1S1)		
Ambient temperature	0 °C...+50 °C			0 °C...+50 °C		
Storage temperature	-40 °C...+55 °C			-40 °C...+55 °C		
Protection type/mounting rail	IP 20 / TS35			IP 20 / TS35		
Emitted interference/interference immunity						
Wire range of screw terminal: finely stranded/single core	0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / 0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup>			0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / 0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup>		
<b>Accessories</b>						
	<b>Relay type</b>	<b>Part No.</b>	<b>Box Qty</b>	<b>Relay type</b>	<b>Part No.</b>	<b>Box Qty</b>
Screw holder for operating voltage (6/12/24) V DC	12 or 24 V DC	80.063.4001.1	10	12 or 24 V DC	80.063.4001.1	10
Screw holder for operating voltage (6/12/24) V AC/DC	12 or 24 V DC	80.063.4021.1	10	12 or 24 V DC	80.063.4021.1	10
Screw holder for operating voltage (48/60) V AC/DC	60 V DC	80.063.4023.1	10	60 V DC	80.063.4023.1	10
Screw holder for operating voltage (110...125) V AC/DC	60 V DC	80.063.4025.1	10	60 V DC	80.063.4025.1	10
Screw holder for operating voltage (220...240) V AC/DC	60 V DC	80.063.4026.1	10	60 V DC	80.063.4026.1	10
Insulation plate	IP SF38	80.063.4009.1	20	IP SF38	80.063.4009.1	20
Comb shaped jumper for linking the terminals, continuous current 36 A	KB SF38	80.063.4029.1	20	KB SF38	80.063.4029.1	20
Marker tag (plastic, white)	BZ SF38	80.063.4029.3	100	BZ SF38	80.063.4029.3	100
Marker plate	BM SF38	80.063.4129.3	100	BM SF38	80.063.4129.3	100
12 V DC Relay	80.063.4031.0	80.063.4031.1	1			
24 V DC Relay				80.063.4032.0	80.063.4032.1	1
60 V DC Relay						

# flare



Overall width: 6.2 mm  
Plug-in

**Coil voltage 115 V AC/DC**  
**Output 250 V AC / 6 A**  
**1 Changeover contact**  
Approvals: in preparation

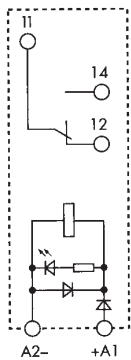
**Coil voltage 230 V AC/DC**  
**Output 250 V AC / 6 A**  
**1 Changeover contact**  
Approvals: in preparation

Dimensions (mm): B x H x T  
6.2 x 88 x 76

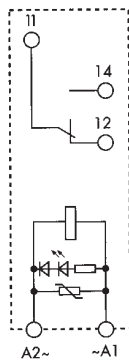
Description	AgSnO <sub>2</sub>		Box Qty	AgSnO <sub>2</sub> + Au (5 μ)		Box Qty
	AgSnO <sub>2</sub>	AgSnO <sub>2</sub> + Au (5 μ)		AgSnO <sub>2</sub>	AgSnO <sub>2</sub> + Au (5 μ)	
<b>115 V AC/DC Relay module</b>	80.010.4525.0	80.010.4525.1				
<b>230 V AC/DC Relay module</b>				80.010.4526.0	80.010.4526.1	
<b>Coil side</b>						
Nominal operating voltage	115 V AC/DC (50/60 Hz)			230 V AC/DC (50/60 Hz)		
Maximum operating voltage	138 V			264 V		
Minimum operating voltage	88 V			184 V		
Nominal input current	5 mA			4 mA		
Nominal input capacity	0.9 VA			0.9 VA		
Operating range	(0.8 ... 1.1) U <sub>N</sub>			(0.8 ... 1.1) U <sub>N</sub>		
Connectable via plug-in jumper	20 Modules			20 Modules		
Status display	LED green			LED green		
<b>Switching characteristics</b>	<b>AgSnO<sub>2</sub></b>	<b>AgSnO<sub>2</sub> + Au (5 μ)</b>		<b>AgSnO<sub>2</sub></b>	<b>AgSnO<sub>2</sub> + Au (5 μ)</b>	
Maximum switching voltage	400 V AC*			400 V AC*		
Nominal switching voltage	250 V AC			250 V AC		
Maximum switching current	6 A			6 A		
Maximum switching capacity AC 1	1500 VA			1500 VA		
Maximum starting current	10 A (0.5 sec.)			10 A (0.5 sec.)		
Pickup/dropout delay (including chatter)	7 ms / 11 ms			7 ms / 11 ms		
Maximum switching frequency	10 Hz (without load); 0.5 Hz (at full load)			10 Hz (without load); 0.5 Hz (at full load)		
Contact material	AgSnO <sub>2</sub>	AgSnO <sub>2</sub> + Au (5 μ)		AgSnO <sub>2</sub>	AgSnO <sub>2</sub> + Au (5 μ)	
Minimum switchable voltage	12 V	5 V		12 V	5 V	
Minimum switchable current	10 mA	2 mA		10 mA	2 mA	
Minimum switching capacity	500 mW	50 mW		500 mW	50 mW	
Mechanical endurance AC/DC	1 x 10 <sup>7</sup>			1 x 10 <sup>7</sup>		
Electrical endurance AC 1	6 x 10 <sup>4</sup>			6 x 10 <sup>4</sup>		
Rated voltage	250 V			250 V		
Isolation voltage of input/output	4 kV <sub>eff.</sub> / 3			4 kV <sub>eff.</sub> / 3		
Overvoltage category	III			III		
Degree of pollution	3			3		
Ambient temperature	-40 °C...+55 °C			-40 °C...+55 °C		
Storage temperature	-40 °C...+55 °C			-40 °C...+55 °C		
Protection type/mounting rail	IP 20 / TS35			IP 20 / TS35		
Emitted interference/interference immunity						
Wire range of screw terminal: finely stranded/single core	0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> / 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup>			0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> / 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup>		
<b>Accessories</b>	<b>Relay type</b>	<b>Part No.</b>	<b>Box Qty</b>	<b>Relay type</b>	<b>Part No.</b>	<b>Box Qty</b>
Screw holder for operating voltage (6/12/24) V DC	12 or 24 V DC	80.063.4001.1	10	12 or 24 V DC	80.063.4001.1	10
Screw holder for operating voltage (6/12/24) V AC/DC	12 or 24 V DC	80.063.4021.1	10	12 or 24 V DC	80.063.4021.1	10
Screw holder for operating voltage (48/60) V AC/DC	60 V DC	80.063.4023.1	10	60 V DC	80.063.4023.1	10
Screw holder for operating voltage (110...125) V AC/DC	60 V DC	80.063.4025.1	10	60 V DC	80.063.4025.1	10
Screw holder for operating voltage (220...240) V AC/DC	60 V DC	80.063.4026.1	10	60 V DC	80.063.4026.1	10
Insulation plate	IP SF38	80.063.4009.1	20	IP SF38	80.063.4009.1	20
Comb-shaped jumper for linking the terminals A1, A2						
20 poles	KB SF38	80.063.4029.1	20	KB SF38	80.063.4029.1	20
Marker tag (plastic, white)	BZ SF38	80.063.4029.3	100	BZ SF38	80.063.4029.3	100
Marker plate	BM SF38	80.063.4129.3	100	BM SF38	80.063.4129.3	100
12 V DC Relay						
24 V DC Relay						
60 V DC Relay (für 115 V / 230 V Relay module)	80.063.4034.0	80.063.4034.1	1			
60 V DC Relay (für 115 V / 230 V Relay module)				80.063.4034.0	80.063.4034.1	1

Wiring diagrams: **flare** MOVE – Mechanical relay modules

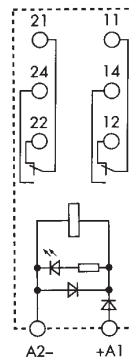
12 V DC Relay  
 Part No. 80.010.4701.2



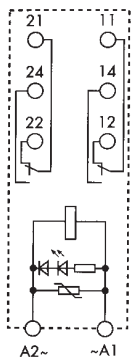
12 V AC Relay  
 Part No. 80.010.4711.2



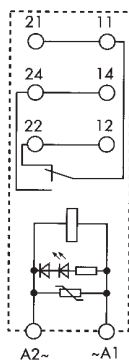
24 V DC Relay  
 Part No. 80.010.5102.2



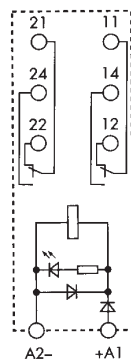
24 V AC Relay  
 Part No. 80.010.5312.2



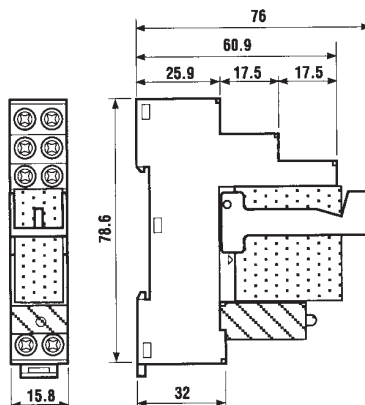
115 V AC Relay  
 Part No. 80.010.4915.3



230 V AC Relay  
 Part No. 80.010.4716.2



Dimensions



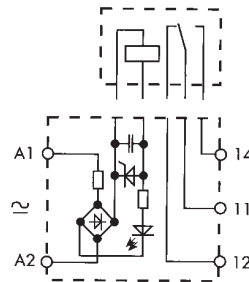


## Wiring diagrams: *flare* MOVE – Mechanical relay modules

### 12 V DC; AC/DC Relay 1 Changeover contact

Part No. 80.010.4521.0

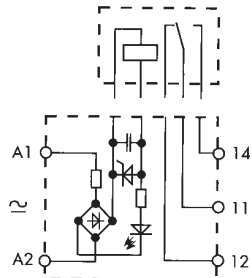
Part No. 80.010.4521.1



### 24 V DC; AC/DC Relay 1 Changeover contact

Part No. 80.010.4522.0

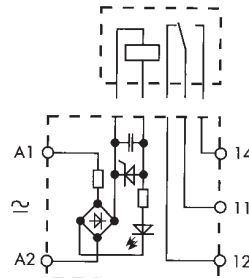
Part No. 80.010.4522.1



### 115 V AC/DC Relay 1 Changeover contact

Part No. 80.010.4525.0

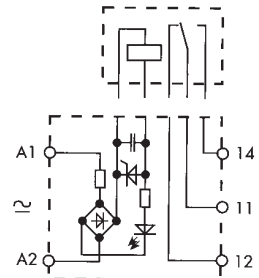
Part No. 80.010.4525.1



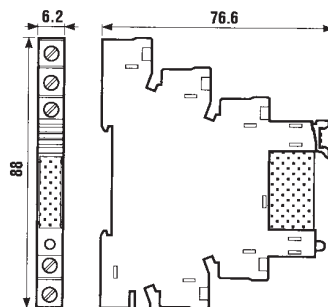
### 230 V AC/DC Relay 1 Changeover contact

Part No. 80.010.4526.0

Part No. 80.010.4526.1



## Dimensions





# wieland

**Electrical  
Connections**

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#### DIN rail terminal blocks

- with screw connection
- with spring connection
- with IDC connection

#### Terminal blocks for electrical installations

- with screw connection
- with spring connection

#### Lighting and appliance terminals

##### Terminal strips

#### PC board connectors

- modular/pluggable
- insulated headers
- rising cage clamp/  
plug connectors
- TOP connection
- spring connection
- electronics housings

#### Electronics components

- relay modules
- solid-state modules
- interface modules
- function modules
- Power Supplies

#### Fieldbus components

- motor starter
- power bus
- distributed I/Os

#### Systems for electrical installation

- Mains connectors
- Bus connectors
- Compact connectors
- Low voltage connectors
- Flat cable systems
- Distribution systems
- EIB switching devices

#### Multipole connectors

##### Multipole adapter

##### EExi

##### Data cablefeed-through

##### Connectors with mixed contacts



**Product Range**