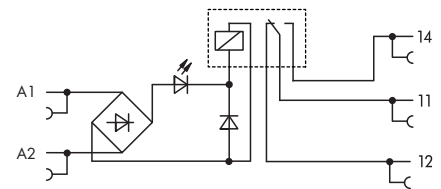
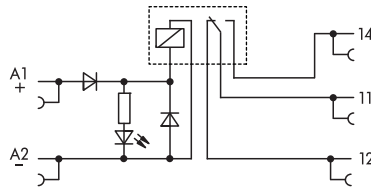
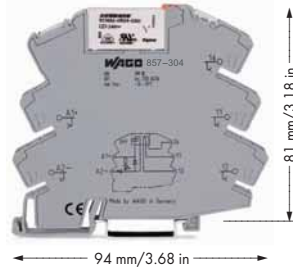
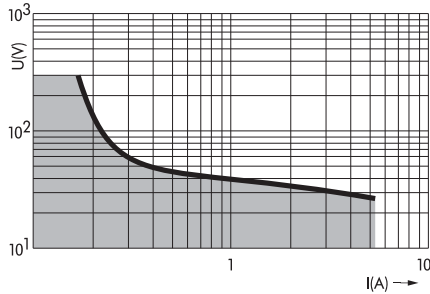


	Relay with 1 changeover contact (1u) for normal switching power Nominal input voltage V_N 12 V, 24 V, 48 V, 60 V, 110 V, 220 V DC	Relay with 1 changeover contact (1u) for normal switching power Nominal input voltage V_N 24 V, 115 V, 230 V AC/DC
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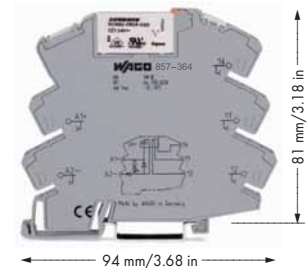
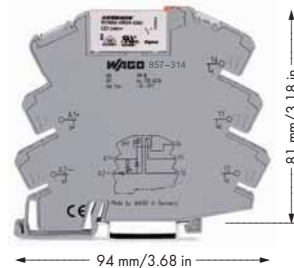
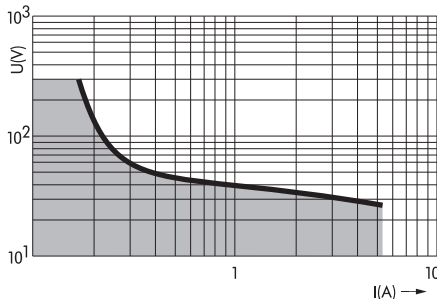


Note: Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts.

Description	V _N	I _N	Item No.	Pack. Unit	V _N	I _N	Item No.	Pack. Unit
JUMPFLEX® relay socket with miniature switching relay, for DIN 35 rail	12 V DC	17 mA	857-303	1	24 V AC/DC	8.5 mA	857-354	1
	24 V DC	10 mA	857-304	1	115 V AC/DC	4 mA	857-357	1
	48 V DC	6.5 mA	857-305	1	230 V AC/DC	3.5 mA	857-358	1
	60 V DC	5.2 mA	857-306	1				
	110 V DC	3.5 mA	857-307	1				
	220 V DC	3.2 mA	857-308	1				

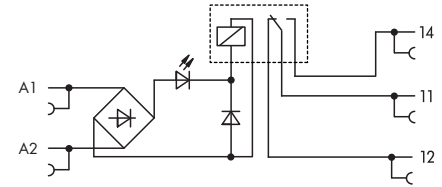
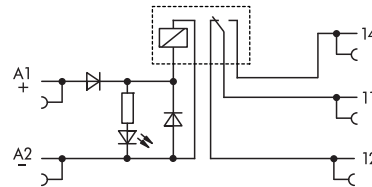
Technical Data	Accessories see pages 68 ... 71				Accessories see pages 68 ... 71			
Contact material	AgSnO ₂				AgSnO ₂			
Input voltage range	V _N -15 % ... +20 %				V _N -15 % ... +20 % (857-354/857-357) V _N -15 % ... +10 % (857-358)			
Max. switching voltage	250 V AC				250 V AC			
Max. continuous current (terminal blocks in a row)	6 A				6 A			
Max. switching power (resistive)	1250 VA AC; DC see load limit curve				1250 VA AC; DC see load limit curve			
Recommended minimum load	≥ 100 mA / 12 V AC/DC				≥ 100 mA / 12 V AC/DC			
Max. switching rate with / without load	6 min ⁻¹ / 20 s ⁻¹				6 min ⁻¹ / 20 s ⁻¹			
Operating power	< 300 mW / < 700 mW				< 300 mVA / < 800 mVA			
Pull-in/drop-out/bounce time typ.	5 ms / 6 ms / 5 ms				5 ms / 6 ms / 5 ms			
Nominal operating mode	continuous duty				continuous duty			
Dielectric strength contact-coil	4 kV _{eff}				4 kV _{eff}			
Surge capacity open contact	1 kV _{eff}				1 kV _{eff}			
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 4 kV / 3				250 V / 4 kV / 3			
Mechanical life	5 x 10 ⁶ switching operations				5 x 10 ⁶ switching operations			
Mechanical life at max. load (resistance)	5 x 10 ⁴ switching operations				5 x 10 ⁴ switching operations			
Ambient operating temperature (V _N)	-25 °C ... +60 °C				-25 °C ... +60 °C			
Storage temperature	-40 °C ... +70 °C				-40 °C ... +70 °C			
Dimensions (mm) W x H x L	6 x 81 x 94				6 x 81 x 94			
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S				Height from upper-edge of DIN 35 rail CAGE CLAMP®S			
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12				solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12			
Stripped lengths	9 ... 10 mm / 0.37 in				9 ... 10 mm / 0.37 in			
Approvals	VDE 0110 / EN 60664; VDE 0435 / EN 61810-1; Ⓢ				VDE 0110 / EN 60664; VDE 0435 / EN 61810-1; Ⓢ (857-358: Ⓢ pending)			

	<p>Relay with 1 changeover contact (1u) (gold contacts) for normal switching power Nominal input voltage V_N 24 V, 110 V, 220 V DC</p>	<p>Relay with 1 changeover contact (1u) (gold contacts) for normal switching power Nominal input voltage V_N 24 V, 115 V, 230 V AC/DC</p>
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* In order to prevent the gold layer from being damaged these values should not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the enclosure may cause sparkovers between the coil and the contact.

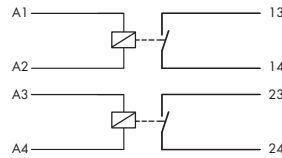
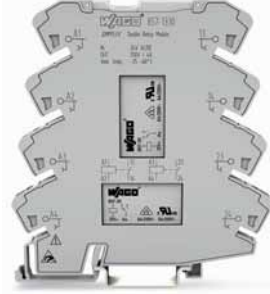
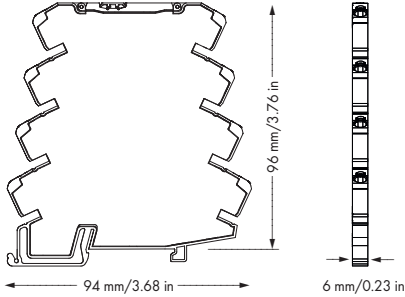
The values in brackets are valid if the gold layer is damaged.



Description	V _N	I _N	Item No.	Pack. Unit	V _N	I _N	Item No.	Pack. Unit
JUMPFLEX® relay socket with miniature switching relay, for DIN 35 rail	24 V DC	10 mA	857-314	1	24 V AC/DC	8.5 mA	857-364	1
	110 V DC	3.5 mA	857-317	1	115 V AC/DC	4 mA	857-367	1
	220 V DC	3.2 mA	857-318	1	230 V AC/DC	3.5 mA	857-368	1

Technical Data	Accessories see pages 68 ... 71	Accessories see pages 68 ... 71
Contact material	AgSnO ₂ + 5 μ Au	AgSnO ₂ + 5 μ Au
Input voltage range	V _N -15 % ... +20 %	V _N -15 % ... +20 % (857-364/857-367) V _N -15 % ... +10 % (857-368)
Max. switching voltage	36 V* DC / (250 V AC/DC)	(250 V AC/DC)*
Max. continuous current (terminal blocks in a row)	50 mA* / (6 A)	50 mA* / (6 A)
Max. switching power (resistive)	(1250 VA AC; DC see load limit curve)	(1250 VA AC; DC see load limit curve)
Recommended minimum load	≥ 1 V / 1 mA / 50 mW	≥ 1 V / 1 mA / 50 mW
Max. switching rate with / without load	6 min ⁻¹ / 20 s ⁻¹	6 min ⁻¹ / 20 s ⁻¹
Operating power	< 300 mW / < 700 mW	< 300 mVA / < 800 mVA
Pull-in/drop-out/bounce time typ.	5 ms / 6 ms / 5 ms	5 ms / 6 ms / 5 ms
Nominal operating mode	continuous duty	continuous duty
Dielectric strength contact-coil	4 kV _{eff}	4 kV _{eff}
Surge capacity open contact	1 kV _{eff}	1 kV _{eff}
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 4 kV / 3	250 V / 4 kV / 3
Mechanical life	5 x 10 ⁶ switching operations	5 x 10 ⁶ switching operations
Mechanical life at max. load (resistance)	5 x 10 ⁴ switching operations	5 x 10 ⁴ switching operations
Ambient operating temperature (V _N)	-25 °C ... +60 °C	-25 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) W x H x L	6 x 81 x 94 Height from upper-edge of DIN 35 rail	6 x 81 x 94 Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®S	CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in	9 ... 10 mm / 0.37 in
Approvals	VDE 0110 / EN 60664; VDE 0435 / EN 61810-1; Ⓢ	VDE 0110 / EN 60664; VDE 0435 / EN 61810-1; Ⓢ (857-368: Ⓢ pending)

With 2 relays, with 1 make contact (1 a)
for normal switching power
Nominal input voltage
 V_N 24 V AC/DC



Note: Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts.

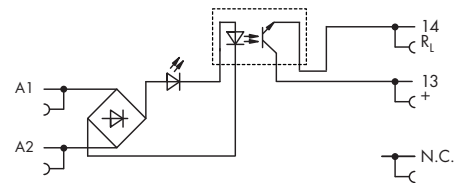
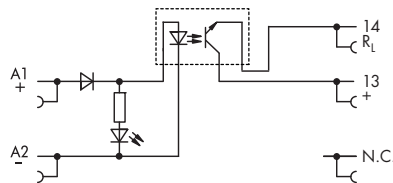
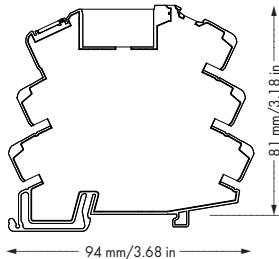
Description	V_N	I_N	Item No.	Pack. Unit
JUMPFLEX® Relais, for DIN 35 rail	AC/DC 24 V	10 mA	857-1330	1

Technical Data

Accessories see pages 68 ... 71

Contact material	AgSnO ₂
Input voltage range	V_N -15 % ... +20 %
Max. switching voltage	250 V AC
Max. continuous current (terminal blocks in a row)	4 A
Max. Switching power (resistive)	AC 1000 VA; DC see load limit curve
Recommended minimum load	≥ 100 mA / 12 V AC/DC
Max. switching rate with / without load	6 min ⁻¹ / 20 s ⁻¹
Operating power	< 300 mW / < 700 mW
Pull-in/drop-out/bounce time typ.	5 ms / 6 ms / 5 ms
Nominal operating mode	continuous duty
Dielectric strength contact-coil	2.5 kV
Surge capacity open contact	1 kV _{eff}
Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1	250 V / 4 kV / 3
Mechanical life	5 × 10 ⁶ switching operations
Mechanical life at max. load (resistance)	5 × 10 ⁴ switching operations
Ambient operating temperature (V_N)	-25 °C ... +60 °C
Storage temperature	-40 °C ... +85 °C
Dimensions (mm) W x H x L	6 x 96 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in
Approvals	VDE 0110 / EN 60664; VDE 0435 / EN 61810-1

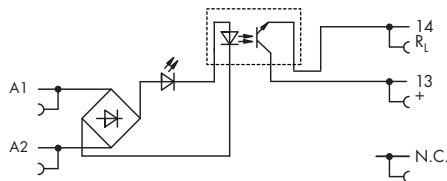
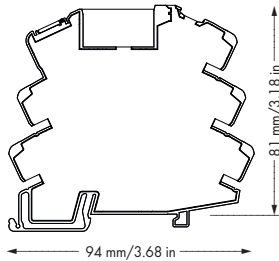
	Solid state relay Input: 24 V DC Output: 0 V ... 48 V DC / 0.1 A	Solid state relay Input: 115 V AC/DC Output: 0 ... 48 V DC / 0.1 A
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Description	Item No.	Pack. Unit	Item No.	Pack. Unit
JUMPFLEX® relay socket with solid state relay, for DIN 35 rail	857-704	1	857-707	1

Technical Data	Accessories see pages 69 ... 71	Accessories see pages 69 ... 71
Control circuit:		
Nominal input voltage (V _N)	24VDC	115V AC/DC
Input voltage range (low level)	0 - 10V	0 - 25V
Input voltage range (high level)	18 - 28.8V	100 - 138V
Nominal input current (I _N)	9 mA	4.2 mA
Load circuit:		
Switching voltage	0 V ... 48 V DC	0 V ... 48 V DC
Peak reverse voltage	54 V	54 V
Max. switching current	0.1 A DC	0.1 A DC
Forward voltage at max. switching current	< 1VDC	< 1VDC
Switch on/switch off time	60µs / 800µs	15ms / 13ms
Ambient operating temperature	-20 °C ... +60 °C	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dielectric strength control/switching circuit	2.5 kV	2.5 kV
Dimensions (mm) W x H x L	6 x 81 x 94	6 x 81 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 61000-6-2 with 859-891 Overvoltage Protection Module for SSR*, EN 61000-6-4 (* pending)	EN 61000-6-2 with 859-891 Overvoltage Protection Module for SSR*, EN 61000-6-4, EN 60664-1 (* pending)
Approvals	CE*, @*, UL 508 * pending	CE*, @*, UL 508 * pending

Solid state relay
Input: 230 V AC/DC
Output: 0 V ... 48 V DC / 0.1 A



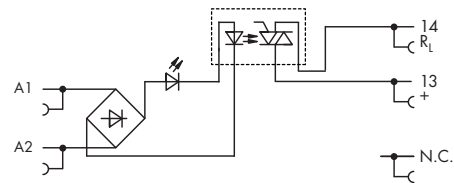
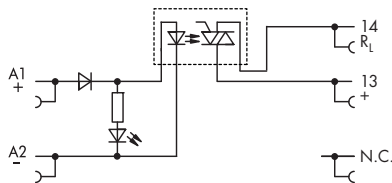
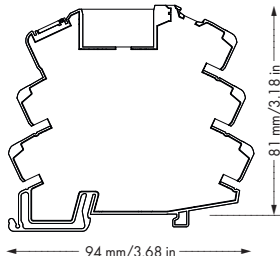
Description	Item No.	Pack. Unit
JUMPFLEX® relay socket with solid state relay, for DIN 35 rail	857-708	1

Technical Data

Accessories see pages 69 ... 71

Control circuit:	
Nominal input voltage (V _N)	230V AC/DC
Input voltage range (low level)	0 - 30V
Input voltage range (high level)	200 - 253V
Nominal input current (I _N)	3.25 mA
Load circuit:	
Switching voltage	0 V ... 48 V DC
Peak reverse voltage	54 V
Max. switching current	0.1 A DC
Forward voltage at max. switching current	< 1VDC
Switch on/switch off time	25ms / 13ms
Ambient operating temperature	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C
Dielectric strength control/switching circuit	2.5 kV
Dimensions (mm) W x H x L	6 x 81 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 61000-6-2 with 859-891 Overvoltage Protection Module for SSR*, EN 61000-6-4, EN 60664-1 (* pending)
Approvals	CE, @*, UL 508 * pending

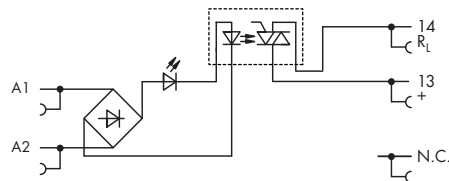
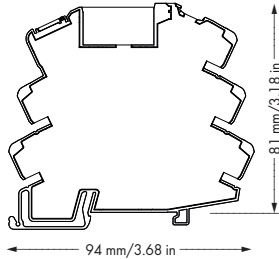
	Solid state relay Input: 24 V DC Output: 24 V ... 240 V AC / 1 A	Solid state relay Input: 115 V AC/DC Output: 24 V ... 240 V AC / 1 A
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Description	Item No.	Pack. Unit	Item No.	Pack. Unit
JUMPFLEX® relay socket with solid state relay, for DIN 35 rail	857-714	1	857-717	1

Technical Data	Accessories see pages 69 ... 71	Accessories see pages 69 ... 71
Control circuit:		
Nominal input voltage (V _N)	24VDC	115V AC/DC
Input voltage range (low level)	0 - 10V	0 - 25V
Input voltage range (high level)	20 - 28.8V	90 - 138V
Nominal input current (I _N)	9.2 mA	3.9 mA
Load circuit:		
Switching voltage	24 V ... 240 V AC	24 V ... 240 V AC
Peak reverse voltage	600 V	600 V
Max. switching current	1 A AC	1 A AC
Forward voltage at max. switching current	< 1 V AC	< 1 V AC
Ambient operating temperature	-20 °C ... +60 °C	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dielectric strength control/switching circuit	2.5 kV	2.5 kV
Dimensions (mm) W x H x L	6 x 81 x 94	6 x 81 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 60664-1	EN 60664-1
Approvals	CE, UL 508	CE, UL 508

Solid state relay
Input: 230 V AC/DC
Output: 24 V ... 240 V AC / 1 A



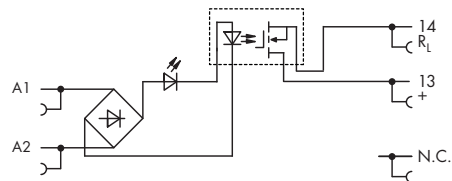
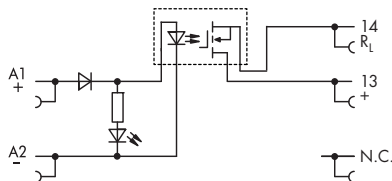
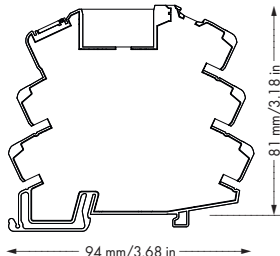
Description	Item No.	Pack. Unit
JUMPFLEX® relay socket with solid state relay, for DIN 35 rail	857-718	1

Technical Data

Accessories see pages 69 ... 71

Control circuit:	
Nominal input voltage (V _N)	230V AC/DC
Input voltage range (low level)	0 - 60V
Input voltage range (high level)	200 - 253V
Nominal input current (I _N)	3.2 mA
Load circuit:	
Switching voltage	24 V ... 240 V AC
Peak reverse voltage	600 V
Max. switching current	1 A AC
Forward voltage at max. switching current	< 1 V AC
Ambient operating temperature	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C
Dielectric strength control/switching circuit	2.5 kV
Dimensions (mm) W x H x L	6 x 81 x 94
	Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 60664-1
Approvals	CE, UL 508

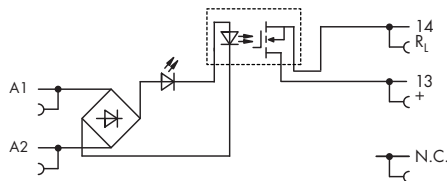
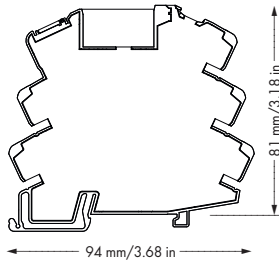
	Solid state relay Input: 24 V DC Output: 0 V ... 24 V DC / 2 A	Solid state relay Input: 115 V AC/DC Output: 0 V ... 24 V DC / 2 A
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Description	Item No.	Pack. Unit	Item No.	Pack. Unit
JUMPFLEX® relay socket with solid state relay, for DIN 35 rail	857-724	1	857-727	1

Technical Data	Accessories see pages 69 ... 71	Accessories see pages 69 ... 71
Control circuit:		
Nominal input voltage (V _N)	24VDC	115V AC/DC
Input voltage range (low level)	0 - 10V	0 - 25V
Input voltage range (high level)	18 - 28.8V	90 - 138V
Nominal input current (I _N)	9.2 mA	3.9 mA
Load circuit:		
Switching voltage	0 V ... 24 V DC	0 V ... 24 V DC
Peak reverse voltage	33 V	33 V
Max. switching current	2ADC	2ADC
Forward voltage at max. switching current	< 120mV DC	< 120mV DC
Switch on/switch off time	0.1 ms / 2ms	5ms / 14ms
Ambient operating temperature	-20 °C ... +60 °C	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Dielectric strength control/switching circuit	2.5 kV	2.5 kV
Dimensions (mm) W x H x L	6 x 81 x 94	6 x 81 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 61000-6-2*, EN 61000-6-4; *The operator has to take appropriate measures so as to meet the requirements of immunity to interference for electrical and electronic devices (acc. to EN 61000-6-2 and GL) on the output side, such as using the 859-890 Overvoltage Protection Module for SSR.	EN 61000-6-2*, EN 61000-6-4, EN 60664-1; *The operator has to take appropriate measures so as to meet the requirements of immunity to interference for electrical and electronic devices (acc. to EN 61000-6-2 and GL) on the output side, such as using the 859-890 Overvoltage Protection Module for SSR.
Approvals	CE, ®, UL 508	CE, ®, UL 508

	<p>Solid state relay Input: 230 V AC/DC Output: 0 V ... 24 V DC / 2 A</p>	
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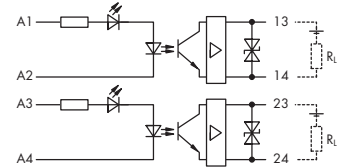
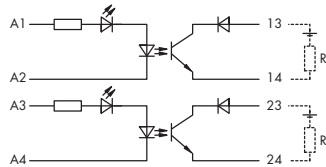
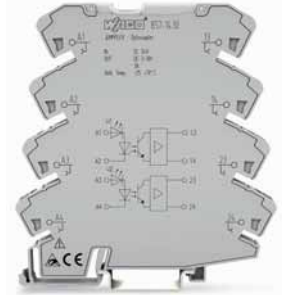
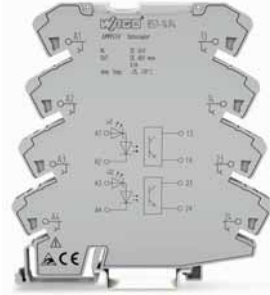
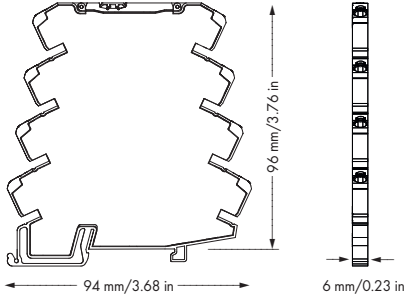
Description	Item No.	Pack. Unit
JUMPFLEX® relay socket with solid state relay, for DIN 35 rail	857-728	1

Technical Data

Accessories see pages 69 ... 71

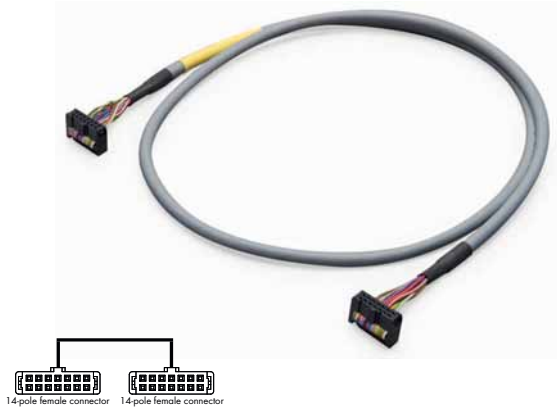
Control circuit:	
Nominal input voltage (V _N)	230V AC/DC
Input voltage range (low level)	0 - 60V
Input voltage range (high level)	200 - 253V
Nominal input current (I _N)	3.2 mA
Load circuit:	
Switching voltage	0 V ... 24 V DC
Peak reverse voltage	33 V
Max. switching current	2ADC
Forward voltage at max. switching current	< 120mV DC
Switch on/switch off time	8ms / 16ms
Ambient operating temperature	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C
Dielectric strength control/switching circuit	2.5 kV
Dimensions (mm) W x H x L	6 x 81 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in
Standards/Specifications	EN 61000-6-2*, EN 61000-6-4, EN 60664-1; *The operator has to take appropriate measures so as to meet the requirements of immunity to interference for electrical and electronic devices (acc. to EN 61000-6-2 and GL) on the output side, such as using the 859-890 Overvoltage Protection Module for SSR.
Approvals	CE, @, UL 508

	Optocoupler Input: 2 x 24 VDC Output: 2 x 9 – 60 VDC / 0.1 A	Optocoupler Input: 2 x 24 VDC Output: 2 x 3 – 30 VDC / 3 A
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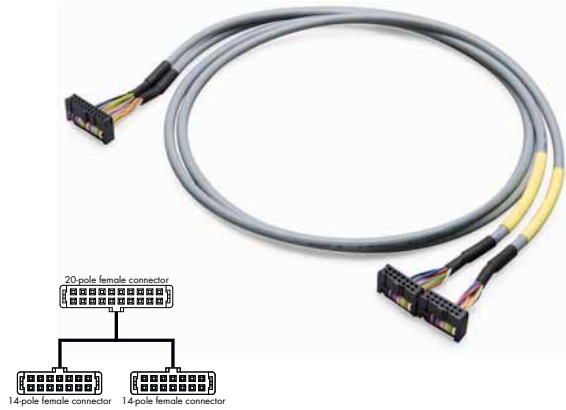
Description	Item No.	Pack. Unit	Item No.	Pack. Unit
JUMPFLEX® Optocoupler, for DIN 35 rail	857-1494	1	857-1430	1

Technical Data	Accessories see pages 69 ... 71	Accessories see pages 69 ... 71
Control circuit:		
Nominal input voltage (V _N)	2 x 24 V DC	2 x 24 V DC
Input voltage range	V _N -30 % ... +25 %	V _N -30 % ... +25 %
Input voltage range (low level)	0 V ... 5 V	0 V ... 5 V
Input voltage range (high level)	16.8 V ... 30 V	16.8 V ... 30 V
Input current range	3 mA ... 7.8 mA	4.25 mA ... 11 mA
Nominal input current (I _N)	5.6 mA	7.75 mA
Load circuit:		
Switching voltage	2 x DC 9 V ... 60 V	2 x DC 3 V ... 30 V
Max. switching current	2 x 0.1 A DC	2 x 3 A DC
Peak reverse voltage	100 V	55 V
Forward voltage at max. switching current	< 2 V	< 0.2 V
Leakage current at nominal voltage	25 µA	250 µA
Switch on/switch off time	20 µs / 120 µs	25 µs / 250 µs
Max. switching frequency	1.5 kHz	300 Hz
Dielectric strength control/switching circuit	2.5 kV	2.5 kV
Dielectric strength channel/channel	4 kV	4 kV
Ambient operating temperature	-25 °C ... +70 °C	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C	-40 °C ... +85 °C
Dimensions (mm) W x H x L	6 x 96 x 94	6 x 96 x 94
	Height from upper-edge of DIN 35 rail	Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®S	CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in	9 ... 10 mm / 0.37 in



The 14-pin cables transmit signals one-to-one from the 14-pole female connector and are available in 1-, 2- and 3-meter lengths.

Suitable for system wiring when combined with the JUMPFLEX® Interface Adapter (Item No. 857-981 and 857-982)



The cables provide fast and easy connection of WAGO I/O modules featuring ribbon cable connectors. The following WAGO I/O modules and adapters are compatible:
750-1500 (16 DO) -> 857-981 (DO)
750-1502 (8 DO / 8 DI) -> 857-981 (DO) and 857-982 (DI)

The ribbon cables are available in 1-, 2- and 3-meter lengths - each has one 20-pole or two 14-pole female connectors on the ends.















Suitable for system wiring when combined with the JUMPFLEX® Interface Adapter (Item No. 857-981 and 857-982)











Description	Item No.	Pack. Unit
WAGO ribbon cable 14/14, 1m long	706-753/300-100	1
WAGO ribbon cable 14/14, 2m long	706-753/300-200	1
WAGO ribbon cable 14/14, 3m long	706-753/300-300	1
Technical Data		
Connections	2 x 14-pole female connector acc. to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	1 m (706-753/300-100) 2 m (706-753/300-200) 3 m (706-753/300-300)	

Description	Item No.	Pack. Unit
WAGO ribbon cable 20/2x14, 1m long	706-7753/304-100	1
WAGO ribbon cable 20/2x14, 2m long	706-7753/304-200	1
WAGO ribbon cable 20/2x14, 3m long	706-7753/304-300	1
Technical Data		
Connections	1 x 20-pole female connector / 2 x 14-pole female connector to DIN 41651	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	1 m (706-7753/304-100) 2 m (706-7753/304-200) 3 m (706-7753/304-300)	

WAGO Ribbon Cables



Color coding acc. to DIN VDE 47100		HE 10	14-pole
		contact number	
white			1
brown			2
green			3
yellow			4
grey			5
pink			6
blue			7
red			8
black			9
violet			10
grey/pink			11
red/blue			12
white/green			13
brown/green			14

Color coding acc. to DIN VDE 47100		HE 10	10-pole
		contact number	
white			1
brown			2
green			3
yellow			4
grey			5
pink			6
blue			7
red			8
black			9
violet			10

Description	Item No.	Pack. Unit
WAGO ribbon cable, 14-pole/one free cable end, length 2 m	706-100/1303-200	1
Technical Data		
Ports	14-pole female connector/one free cable end	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	2 m	

Description	Item No.	Pack. Unit
WAGO ribbon cable, 10-pole/one free cable end, length 2 m	706-100/1301-200	1
Technical Data		
Ports	10-pole female connector/one free cable end	
Wire cross-section	0.14 mm ² LiYY	
Color coding	acc. to DIN VDE 47100	
Current per channel	max. 1 A	
Operating temperature	-25 °C ... +70 °C	
Degree of protection	IP20	
Length	2 m	

	Pluggable replacement optocoupler	Pluggable replacement optocoupler
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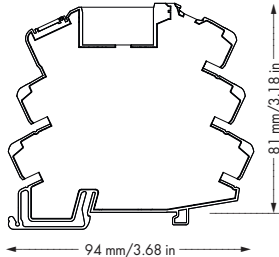
Description	Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Pluggable optocouplers	857-161	20	857-164	20	857-167	20

Technical Data						
Control circuit:						
Nominal input voltage (V _N)	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Input voltage range	18 V ... 30 V DC	16 V ... 30 V DC	16 V ... 30 V DC	18 V ... 30 V DC	18 V ... 30 V DC	18 V ... 30 V DC
Nominal input current (I _N)	7 mA	7 mA	7 mA	7 mA	7 mA	7 mA
Load circuit:						
Switching voltage	0 V ... 24 V DC	0 V ... 48 V DC	0 V ... 48 V DC	24 V ... 240 V AC	24 V ... 240 V AC	24 V ... 240 V AC
Peak reverse voltage	33 V	54 V	54 V	600 V	600 V	600 V
Max. switching current	2 A DC	100 mA DC	100 mA DC	1 A AC	1 A AC	1 A AC
Forward voltage at max. switching current	< 120 mV DC	< 1 V DC	< 1 V DC	< 1 V AC	< 1 V AC	< 1 V AC
Dielectric strength control/switching circuit	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV
General Specifications						
Ambient operating temperature	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) W x H x L	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28

Description	Item No.	Pack. Unit	Item No.	Pack. Unit	Item No.	Pack. Unit
Pluggable optocouplers	857-162	20	857-165	20	857-168	20

Technical Data						
Control circuit:						
Nominal input voltage (V _N)	60 V DC	60 V DC	60 V DC	60 V DC	60 V DC	60 V DC
Input voltage range	35 V ... 72 V DC	52 V ... 72 V DC	52 V ... 72 V DC	35 V ... 72 V DC	35 V ... 72 V DC	35 V ... 72 V DC
Nominal input current (I _N)	3 mA	2.8 mA	2.8 mA	3.1 mA	3.1 mA	3.1 mA
Load circuit:						
Switching voltage	0 V ... 24 V DC	0 V ... 48 V DC	0 V ... 48 V DC	24 V ... 240 V AC	24 V ... 240 V AC	24 V ... 240 V AC
Peak reverse voltage	33 V	54 V	54 V	600 V	600 V	600 V
Max. switching current	2 A DC	100 mA DC	100 mA DC	1 A AC	1 A AC	1 A AC
Forward voltage at max. switching current	< 120 mV DC	< 1 V DC	< 1 V DC	< 1 V AC	< 1 V AC	< 1 V AC
Dielectric strength control/switching circuit	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV
General Specifications						
Ambient operating temperature	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C	-20 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C
Dimensions (mm) W x H x L	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28	5 x 15 x 28

Sockets for miniature switching relay and optocoupler



Description	Item No.	Pack. Unit
JUMPFLEX® socket for miniature switching relay and optocoupler, 24 V AC/DC for DIN 35 rail	857-104	1
JUMPFLEX® socket for miniature switching relay and optocoupler, 110 V AC/DC for DIN 35 rail	857-107	1
JUMPFLEX® socket for miniature switching relay and optocoupler, 230 V AC/DC for DIN 35 rail	857-108	1

Technical Data

Accessories see page 52 + 62 ... 63

Status indication	LED yellow
Operating temperature	-25 °C ... +60 °C
Storage temperature	-40 °C ... +70 °C
Dimensions (mm) W x H x L	6 x 81 x 94
Wire connection	Height from upper-edge of DIN 35 rail CAGE CLAMP®S
Cross sections	solid: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 fine-stranded: 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12
Stripped lengths	9 ... 10 mm / 0.37 in

Assignment Socket / Replacement Relay / Replacement Optocoupler

	Input Voltage	Item No.	Socket	Replacement Relays or Optocouplers
Miniature Switching Relays	12 V DC	857-303	857-103	857-150
	24 V DC	857-304	857-104	857-152
	48 V DC	857-305	857-105	857-154
	60 V DC	857-306	857-106	857-155
	110 V DC	857-307	857-107	857-155
	220 V DC	857-308	857-108	857-155
	24 V AC/DC	857-354	857-104	857-152
	115 V AC/DC	857-357	857-107	857-155
	230 V AC/DC	857-358	857-108	857-155
	Miniature Switching Relays (gold contacts)	24 V DC	857-314	857-104
110 V DC		857-317	857-107	857-157
220 V DC		857-318	857-108	857-157
24 V AC/DC		857-364	857-104	857-153
115 V AC/DC		857-367	857-107	857-157
230 V AC/DC		857-368	857-108	857-157
24 V DC		857-704	857-104	857-164
115 V AC/DC		857-707	857-107	857-165
Solid State Relays	230 V AC/DC	857-708	857-108	857-165
	24 V DC	857-714	857-104	857-167
	115 V AC/DC	857-717	857-107	857-168
	230 V AC/DC	857-718	857-108	857-168
	24 V DC	857-724	857-104	857-161
	115 V AC/DC	857-727	857-107	857-162
	230 V AC/DC	857-728	857-108	857-162

Accessories, 857 Series

Push-in type jumper bar



Commoning



Description		Item No.	Pack. Unit
Push-in type jumper bars, light gray, insulated, 18 A	2-way	859-402	200 (8x25)
	3-way	859-403	200 (8x25)
	4-way	859-404	200 (8x25)
	5-way	859-405	200 (8x25)
	6-way	859-406	100 (4x25)
	7-way	859-407	100 (4x25)
	8-way	859-408	100 (4x25)
	9-way	859-409	100 (4x25)
	10-way	859-410	100 (4x25)
	Item no. suffix for colored push-in type jumper bars	yellow	... /000-029
red		... /000-005	
blue		... /000-006	

WMB Multi marking system



Marking



Description		Item No.	Pack. Unit
WMB Multi marking system	plain	793-501	5 cards
Marking software and printer/plotter see Section 8			
Marking	1 ... 10 (10x)	793-502	5 cards
	11 ... 20 (10x)	793-503	5 cards
	21 ... 30 (10x)	793-504	5 cards
	31 ... 40 (10x)	793-505	5 cards
	41 ... 50 (10x)	793-506	5 cards
	1 ... 50 (2x)	793-566	5 cards
10 strips with 10 markers, white with black printing			

Operating tool



Wire connection



Description		Item No.	Pack. Unit
Operating tool, with partially insulated shaft,	Type 2, blade (3.5 x 0.5) mm	210-720	1