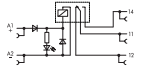
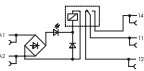
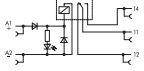
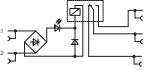
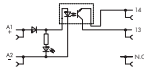
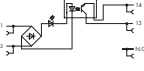
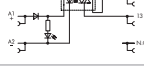
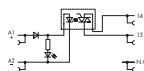
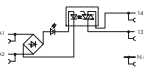
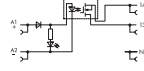
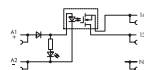
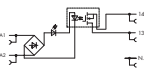
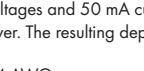


Relay Modules

Miniature Switching and Solid-State Relay Sockets

857 Series

	Description	Input Nominal Voltage U_N	Max. Switching Voltage	Limiting Continuous Current	Item No.
	Relay modules with 1 changeover contact	 12 VDC 24 VDC 48 VDC 60 VDC	250 VAC	6 A	857-303 857-304 857-305 857-306
		 AC/DC 24 V 115 V 230 V 24 ... 230 V	250 VAC	6 A	857-354 857-357 857-358 857-359
	Relay modules with 1 changeover contact and gold contacts	 24 VDC	250 VAC*	6 A*	857-314
		 AC/DC 24 V 115 V 230 V 24 ... 230 V	250 VAC*	6 A*	857-364 857-367 857-368 857-369
	Solid-state relay modules	 24 VDC	0 ... 48 VDC	100 mA	857-704
		 115 VAC/DC	0 ... 48 VDC	100 mA	857-707
		 230 VAC/DC	0 ... 48 VDC	100 mA	857-708
	Solid-state relay modules	 24 VDC	24 ... 240 VAC	1 A	857-714
		 115 VAC/DC	24 ... 240 VAC	1 A	857-717
		 230 VAC/DC	24 ... 240 VAC	1 A	857-718
	Solid-state relay modules	 24 VDC	0 ... 24 VDC	2 A	857-724
		 115 VAC/DC	0 ... 24 VDC	2 A	857-727
		 230 VAC/DC	0 ... 24 VDC	2 A	857-728

*To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents shall not be exceeded.
Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce the service life.

Conductor range (857 Series): 0.34 ... 2.5 mm² / 22 ... 14 AWG
Connection technology (857 Series): Push-in CAGE CLAMP® (see page 14)

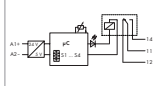
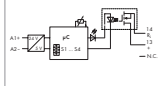
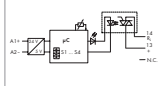
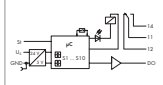
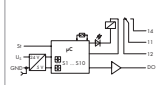
Marking using WMB Multi markers

For jumpers, see page 213.

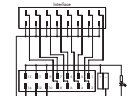
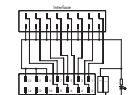
Relay Modules

Multifunction Timer Relay Modules

857 Series

	Description		Input Nominal Voltage U_N	Output Nominal Voltage	Limiting Continuous Current	Item No.
	Timer relay module with 1 changeover contact , 4 functions, 4 time ranges		16.8 ... 31.2 VDC	250 VAC	6 A	857-604
	Solid-state relay module with 1 make contact , 4 functions, 4 time ranges		20.4 ... 31.2 VDC	0 ... 24 VDC	2 A	857-624
	Solid-state relay module with 1 make contact , 4 functions, 4 time ranges		20.4 ... 31.2 VDC	24 ... 230 VAC	1 A	857-634
	Timer relay module with 1 changeover contact , 14 functions, 8 time ranges		16.8 ... 31.2 VDC	250 VAC	6 A	857-640
	Timer relay module with 1 changeover contact , 7 functions, 2 x 8 time ranges		16.8 ... 31.2 VDC	250 VAC	6 A	857-642

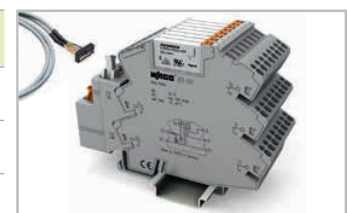
8-Channel Interface Adapter for System Wiring

	Description		Nominal Voltage	Current Carrying Capacity per Channel	Limiting Continuous Current	Item No.
	8-channel adapter , with 14-pole interface cable connector, high-side switching input**		24 VDC	1 A	2.5 A	857-981
	8-channel adapter , with 14-pole interface cable connector, high-side switching output***		24 VDC	1 A	2.5 A	857-982
	8-channel adapter , with D-sub male connector, with 15-pole interface cable connector, high-side switching input**		24 VDC	1 A	2.5 A	857-986

**For use on the 857 Series Relay Module's coil side

***For use on the 857 Series Relay Module's contact side

	Assignment of I/O-Modules to Interface Adapters
	750-1500 (16 DO) compatible with 857-981 (DO)
	750-1502 (8 DO / 8 DI) compatible with 857-981 (DO) and 857-982 (DI)

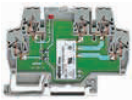
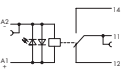
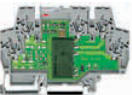
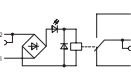
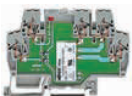
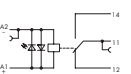
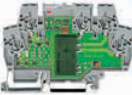
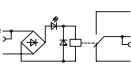
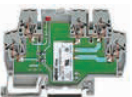
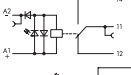
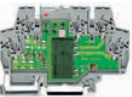
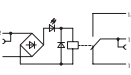
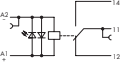
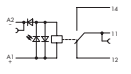


Application example

Relay Modules

Rail-Mounted Terminal Blocks with a Miniature Switching Relay

859 Series

	Description		Input Nominal Voltage U_N	Max. Switching Voltage	Limiting Continuous Current	Item No.
	Relay modules with 1 changeover contact		5 VDC 12 VDC 24 VDC 48 VDC 60 VDC	250 VAC	5 A	859-302 859-303 859-304 859-305 859-306
	Relay modules with 1 changeover contact		12 VAC/DC 24 VAC/DC 48 VAC/DC 115 VAC/DC 230 VAC/DC	250 VAC	5 A	859-353 859-354 859-355 859-357 859-358
	Relay module with 1 changeover contact and gold contacts		24 VDC	250 VAC*	5 A*	859-314
	Relay modules with 1 changeover contact , gold contacts and extended input voltage/temperature range		24 VDC 36 VDC 48 VDC 115 VDC	250 VAC*	3 A*	859-392 859-386 859-384 859-317
	Relay module with 1 changeover contact and gold contacts		230 VAC	250 VAC*	5 A*	859-359
	Relay module with 1 changeover contact and gold contacts		115 VAC	250 VAC*	5 A*	859-360
	Relay module with 1 changeover contact and gold contacts		250 VAC*	250 VAC*	5 A*	859-318
	Relay module with 1 changeover contact		115 VAC	250 VAC	5 A	859-367
	Relay module with 1 changeover contact and defined turn-on/off threshold		230 VAC	250 VAC	5 A	859-368
	Relay module with 1 changeover contact and extended input voltage/temperature range		24 VDC	250 VAC	3 A	859-390
	Relay module with 1 changeover contact and extended input voltage/temperature range		110 VDC	250 VAC	3 A	859-391
	Relay modules with 1 changeover contact and extended input voltage/temperature range		24 VDC 36 VDC 48 VDC 72 VDC 110 VDC	250 VAC	3 A	859-398 859-394 859-397 859-393 859-399

*To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents shall not be exceeded.
Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce the service life.

Conductor range (859 Series): 0.08 ... 2.5 mm² / 28 ... 14 AWG
Connection technology (859 Series): CAGE CLAMP® (see page 14)

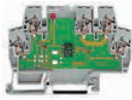
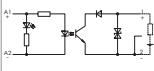
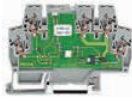
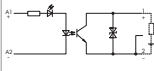
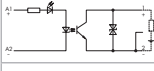
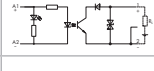
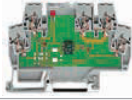
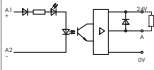
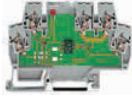
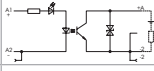
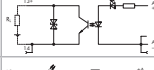
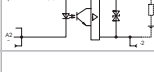
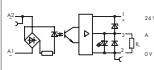
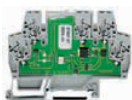
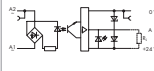
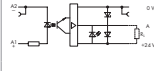
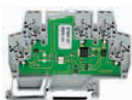
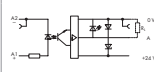
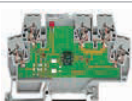
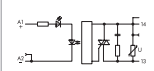
Marking via Miniature WSB Quick Marking System

For jumpers, see page 213.

Optocoupler Modules

Rail-Mounted Terminal Blocks with an Optocoupler

859 Series

	Description		Input Nominal Voltage U_N	Output Nominal Voltage	Limiting Continuous Current	Item No.
	Optocoupler module with an extended output voltage/temperature range, for railway applications		5 VDC	3 ... 60 VDC	100 mA	859-793
	Optocoupler modules with an extended output voltage/temperature range, for railway applications		24 VDC 24 VDC	7 ... 60 VDC 9 ... 60 VDC	100 mA 100 mA	859-791 859-794
	Optocoupler modules		24 VDC	3 ... 30 VDC	100 mA	859-796
			5 VDC	3 ... 30 VDC	100 mA	859-795
	Power optocoupler module, low-side switching		24 VDC	10 ... 30 VDC	3 A	859-720
	Power optocoupler module		24 VDC	3 ... 30 VDC	3 A	859-730
	Power optocoupler module		24 VDC	3 ... 30 VDC	3 A	859-740
	Power optocoupler module		12 ... 48 VDC	3 ... 53 VDC	4 A	859-744
	Optocoupler module, high-side switching, increased input frequency up to 100 Hz, input voltage up to 270 VAC		230 VAC	20 ... 30 VDC	500 mA	859-772
	Optocoupler modules, low-side switching		24 VDC	20 ... 30 VDC	500 mA	859-712
			5 VDC	20 ... 30 VDC	500 mA	859-702
			24 VDC	20 ... 30 VDC	500 mA	859-708
			24 VDC	4 ... 6.25 VDC	500 mA	859-706
	Optocoupler modules, high-side switching		5 VDC	20 ... 30 VDC	500 mA	859-752
			24 VDC	20 ... 30 VDC	500 mA	859-758
			24 VDC	4 ... 6.25 VDC	500 mA	859-756
	Optocoupler module		5 VDC	24 ... 260 VAC	500 mA	859-902

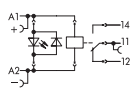
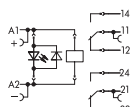
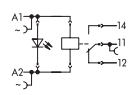
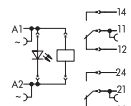
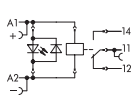
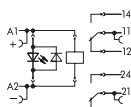
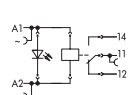
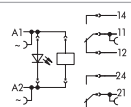
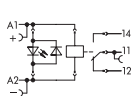
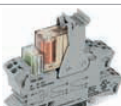
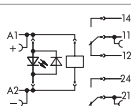
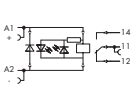
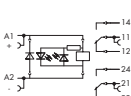
Note:

For rail-mounted terminal blocks with overvoltage protection (792 Series), see Full Line Catalog.

Relay Modules

Sockets with a Miniature Switching Relay

788 Series

	Description		Input Nominal Voltage U_N	Max. Switching Voltage	Limiting Continuous Current	Item No.
	Relay module with 1 changeover contact and status indication (15 mm high relay)		12 VDC 24 VDC 48 VDC 60 VDC 110 VDC	250 VAC	16 A	788-303 788-304 788-305 788-306 788-307
	Relay module with 2 changeover contacts and status indication (15 mm high relay)		12 VDC 24 VDC 48 VDC 60 VDC 110 VDC	250 VAC	2 x 8 A	788-311 788-312 788-313 788-314 788-315
	Relay module with 1 changeover contact and status indication (15 mm high relay)		24 VAC 115 VAC 230 VAC	250 VAC	16 A	788-506 788-507 788-508
	Relay module with 2 changeover contacts and status indication (15 mm high relay)		24 VAC 115 VAC 230 VAC	250 VAC	2 x 8 A	788-512 788-515 788-516
	Relay module with 1 changeover contact , gold contacts and status indication (15 mm high relay)		24 VDC	250 VAC*	16 A*	788-404
	Relay module with 2 changeover contacts , gold contacts and status indication (15 mm high relay)		24 VDC	250 VAC*	2 x 8 A*	788-412
	Relay module with 1 changeover contact , gold contacts and status indication (15 mm high relay)		115 VAC 230 VAC	250 VAC*	16 A*	788-607 788-608
	Relay module with 2 changeover contacts , gold contacts and status indication (15 mm high relay)		115 VAC 230 VAC	250 VAC*	2 x 8 A*	788-615 788-616
	Relay module with 1 changeover contact and status indication (15 mm high relay)		24 VDC	250 VAC	16 A	788-354
	Safety relay module SR2M with 2 changeover contacts , force-guided contacts and status indication		24 VDC	250 VAC	6 A	788-384
	Relay module with 1 changeover contact , manual operation and status indication (25 mm high relay)		24 VDC	250 VAC	16 A	788-341
	Relay module with 2 changeover contacts , manual operation and status indication (25 mm high relay)		24 VDC	250 VAC	2 x 8 A	788-346

*To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents shall not be exceeded.

Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce the service life.

Conductor range (788 Series): 0.34 ... 2.5 mm² / 22 ... 14 AWG

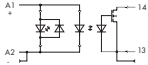
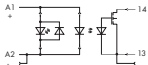
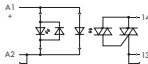
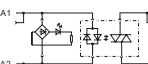
Connection technology (788 Series): Push-in CAGE CLAMP® (see page 14)

Marking via WMB Multi Marking System and marking strips

Solid-State Relay Modules

Sockets with a Solid-State Relay

788 Series

	Description		Input Nominal Voltage U_N	Output Nominal Voltage	Limiting Continuous Current	Item No.
	Solid-state relay module		24 VDC	0 ... 24 VDC	3.5 A	788-700
	Solid-state relay module		24 VDC	0 ... 24 VDC	5 A	788-701
	Solid-state relay module		24 VDC	24 ... 240 VAC	1 A	788-720
	Solid-state relay module		24 VAC/DC	12 ... 275 VAC	4 A	788-721

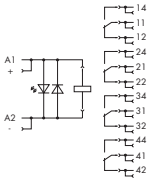
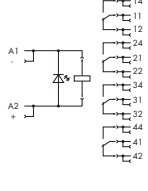
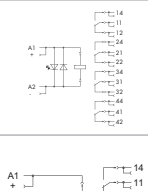
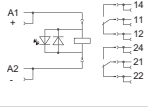
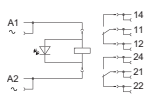
Accessories

	Description		Input Nominal Voltage U_N	Max. Switching Voltage	Limiting Continuous Current	Item No.
	Sockets for miniature switching relays	1 changeover contact, 15 mm high 2 changeover contacts, 15 mm high 1 changeover contact, 25 mm high 2 changeover contacts, 25 mm high	Depending on relay, max. 250 VAC	250 VAC	16 A / 2 x 8 A	788-100 788-102 788-101 788-103
	Status indicators	24 VDC (12 ... 24 V)				788-120
		48 VDC (48 ... 60 V)				788-121
		110 VDC				788-122
		24 VAC				788-123
		115 VAC				788-124
	Suppressor module for relay socket	Max. operating voltage: 230 VAC, 50 ... 60 Hz				788-125
	Pluggable miniature switching relays (15 mm high relay)	1 changeover contact	12 VDC 24 VDC 48 VDC 60 VDC 110 VDC 24 VAC 115 VAC 230 VAC	250 VAC	16 A	788-148
		2 changeover contacts	12 VDC 24 VDC 48 VDC 60 VDC 110 VDC 24 VAC 115 VAC 230 VAC	250 VAC	2 x 8 A	788-150 788-154 788-158 788-162 788-166 788-170 788-174 788-178
	Push-in type jumper bars, I_{max} 18 A	2-way 3-way 4-way 6-way 8-way				788-152 788-156 788-160 788-164 788-168 788-172 788-176 788-180
	Operating tool with a partially insulated shaft	Type 2, (3.5 x 0.5) mm blade				788-113 788-114 788-115 788-116 788-117
						210-720

Relay Modules

Sockets with an Industrial Relay

858 Series

	Description		Input Nominal Voltage U_N	Max. Switching Voltage	Limiting Continuous Current	Item No.
	Relay module with 4 changeover contacts		24 VDC	250 VAC	4 x 5 A	858-304
	Relay module with 4 changeover contacts and gold contacts		24 VDC	250 VAC*	4 x 5 A*	858-314
	Relay modules with 4 changeover contacts		115 VAC 230 VAC	250 VAC	4 x 5 A	858-507 858-508
	Relay modules with 4 changeover contacts and gold contacts		115 VAC 230 VAC	250 VAC*	4 x 5 A*	858-517 858-518
	Relay modules with 4 changeover contacts and extended input voltage/temperature range		24 VDC	250 VAC	4 x 5 A	858-354 858-355
	Relay modules with 2 changeover contacts		24 VDC	250 VAC	2 x 12 A	858-324
			230 VAC			858-528

*To prevent damaging the gold layer, 30 VDC switching voltages and 50 mA currents shall not be exceeded.

Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce the service life.

Accessories

	Description		Input Nominal Voltage U_N	Max. Switching Voltage	Limiting Continuous Current	Item No.
	Sockets for miniature switching relays	2 and 4 changeover contacts	Depending on relay, max. 250 VAC	250 VAC	4 x 6 A (4 changeover contacts); 2 x 12 A (2 changeover contacts)	858-100
	Pluggable industrial relays	4 changeover contacts	24 VDC 230 VAC 24 VAC	250 VAC	5 A	858-150 858-151 858-154
	Pluggable industrial relays with gold contacts	2 changeover contacts	12 VDC 230 VAC	250 VAC*	5 A*	858-152 858-153
	Push-in type jumper bar, I_N 1 A	Commoning one potential on both control and load side				858-402
	Mounting bracket for industrial relays	(33.5 ... 35.5 mm high)				858-110

Conductor range (858 Series): 2 x 0.34 ... 2 x 1.5 mm² / 22 ... 16 AWG

Connection technology (858 Series): Push-in CAGE CLAMP® (see page 14)

Marking via WMB Multi Marking System and marking strips