

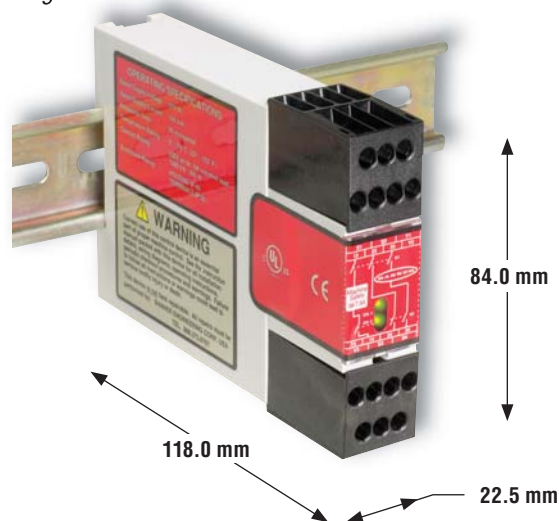
Interface Modules

- Increases the switching current capacity of low-voltage primary safety devices to 6 amps.
- Serves as a relay for primary safety devices with OSSD solid-state or hard contact outputs and external device monitoring, such as the EZ-SCREEN®.
- Uses two green LEDs to indicate the output status of internal relays K1 and K2.
- Responds in 20 milliseconds maximum.



Interface Modules

- 22.5 mm polycarbonate housing
- Plug-in terminal blocks
- DIN rail mounting



Interface Models





Interface Modules

Model	Supply Voltage	Inputs	Safety Outputs	Output Rating	Aux. Outputs	Output Response Time	Data Sheet
IM-T-9A	24V dc	2 NC (dual)	3 NO	6 amps	—	20 ms	62822
IM-T-11A			2 NO		1 NC		

NC = Normally Closed Relay, NO = Normally Open Relay

Interface Modules Specifications

Input Voltage and Current	24V dc, +/-15% no polarity, 10% max. ripple; 50 mA per input channel Power consumption: approx. 2.4 W																		
Supply Protection Circuitry	Protected against transient voltages.																		
Output Configuration	<p>IM-T-9A: 3 normally open output channels IM-T-11A: 2 normally open output channels and 1 normally closed auxiliary output channel. Each normally open output channel is a series connection of contacts from two forced-guided (positive-guided) relays, K1-K2. The normally closed contact 31-32 is a parallel connection of contacts from K1-K2. Contacts: AgNi, 5 µm gold-plated</p> <p>Low Current Rating: Caution: The 5 µm gold-plated contacts allow the switching of low current/low voltage. To preserve the gold plating on the contacts, the following max. values should not be exceeded at any time:</p> <table border="0"> <tr> <td>Min. voltage: 1V ac/dc</td> <td>Max. voltage: 60V</td> </tr> <tr> <td>Min. current: 5 mA ac/dc</td> <td>Max. current: 300 mA</td> </tr> <tr> <td>Min. power: 5 mW (5 mVA)</td> <td>Max. power: 7 W (7 VA)</td> </tr> </table> <p>High Current Rating: If higher loads must be switched through one or more of the contacts, the minimum and maximum values of the contact(s) changes to:</p> <table border="0"> <tr> <td>Min. voltage: 15V ac/dc</td> <td>Max. voltage: 250V ac/dc</td> </tr> <tr> <td>Min. current: 30 mA ac/dc</td> <td>Max. current: 6 A</td> </tr> <tr> <td>Min. power: 5 W (5 VA)</td> <td>Max. power: 200 W (1,500 VA)</td> </tr> </table> <p>Mechanical life: 50,000,000 operations Electrical life: 150,000 operations (typical, @ 200 W (1,500 VA) switched power, resistive load)</p> <p>Feedback contact rating (Y1-Y2, Y3-Y4):</p> <table border="0"> <tr> <td>Min. voltage: 1V ac/dc</td> <td>Max. voltage: 60V</td> </tr> <tr> <td>Min. current: 5 mA ac/dc</td> <td>Max. current: 300 mA</td> </tr> <tr> <td>Min. power: 5 mW (5 mVA)</td> <td>Max. power: 7 W (7 VA)</td> </tr> </table> <p>Note: Transient suppression is recommended when switching inductive loads. Install suppressors across load. Never install suppressors across output contacts.</p>	Min. voltage: 1V ac/dc	Max. voltage: 60V	Min. current: 5 mA ac/dc	Max. current: 300 mA	Min. power: 5 mW (5 mVA)	Max. power: 7 W (7 VA)	Min. voltage: 15V ac/dc	Max. voltage: 250V ac/dc	Min. current: 30 mA ac/dc	Max. current: 6 A	Min. power: 5 W (5 VA)	Max. power: 200 W (1,500 VA)	Min. voltage: 1V ac/dc	Max. voltage: 60V	Min. current: 5 mA ac/dc	Max. current: 300 mA	Min. power: 5 mW (5 mVA)	Max. power: 7 W (7 VA)
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Min. power: 5 mW (5 mVA)	Max. power: 7 W (7 VA)																		
Output Response Time	20 milliseconds max.																		
Status Indicators	2 green LED indicators: K1 energized K2 energized																		
Construction	Polycarbonate housing.																		
Environmental Rating	Rated NEMA 1; IEC IP20.																		
Mounting	Mounts to standard 35 mm DIN rail track. Interface Module must be installed inside an enclosure rated NEMA 3 (IEC IP54), or better.																		
Vibration Resistance	10 to 55Hz @ 0.35 mm displacement per IEC 68-2-6																		
Operating Conditions	Temperature: 0° to +50° C Relative humidity: 90% @ 50° C (non-condensing)																		

Interface Modules Specifications (cont'd)

Application Notes	There are no adjustments and no user-serviceable parts. See data sheet p/n 62822 for information regarding repair service.
Certifications	For a list of certifications see page 237.
Wiring Diagrams	<p>2-Channel, 2 FSDs, 2 EDM: WD064 (p. 288) 2-Channel, 2 PNP, 1 EDM: WD065 (p. 288) 2-Channel, 2 FSDs, 1 EDM: WD066 (p. 289) 1-Channel, 1 Relay, 1 EDM: WD067 (p. 289)</p>

Selection and ordering data

AC and DC operation



3RH11 ...-1...



3RH11 ...-2...



3RH12 ...-1...



3RH12 ...-2...

Rated operational current	Contacts	Rated control supply voltage U_s	DT	Screw terminals	PS	Weight per PU approx.	DT	Cage Clamp terminals	PS*	Weight per PU approx.
$I_{th}/AC-15/AC-14$	Ident. No.	Version		Order No.				Order No.		
at 230 V										
A	NO	NC	V			kg				kg

For screw and snap-on mounting onto 35 mm standard mounting rails

AC operation

AC 50/60 Hz¹⁾

• Size S00

Terminal designations according to EN 50011

6	40 E	4	--	24	▶	3RH11 40-1AB00	1 unit	0.200	▶	3RH11 40-2AB00	1 unit	0.200
				110	▶	3RH11 40-1AF00	1 unit	0.200	▶	3RH11 40-2AF00	1 unit	0.200
				230	▶	3RH11 40-1AP00	1 unit	0.200	▶	3RH11 40-2AP00	1 unit	0.200
31 E	3	1	24	▶	3RH11 31-1AB00	1 unit	0.200	▶	3RH11 31-2AB00	1 unit	0.200	
			110	▶	3RH11 31-1AF00	1 unit	0.200	▶	3RH11 31-2AF00	1 unit	0.200	
			230	▶	3RH11 31-1AP00	1 unit	0.200	▶	3RH11 31-2AP00	1 unit	0.200	
22 E	2	2	24	▶	3RH11 22-1AB00	1 unit	0.200	▶	3RH11 22-2AB00	1 unit	0.200	
			110	▶	3RH11 22-1AF00	1 unit	0.200	▶	3RH11 22-2AF00	1 unit	0.200	
			230	▶	3RH11 22-1AP00	1 unit	0.200	▶	3RH11 22-2AP00	1 unit	0.200	
With permanently mounted auxiliary switch block												
6	44 E	4	4	230	▶	3RH12 44-1AP00	1 unit	0.254	▶	3RH12 44-2AP00	1 unit	0.250
				62 E	6	2	230	▶	3RH12 62-1AP00	1 unit	0.251	▶

DC operation · DC solenoid system

DC												
6	40 E	4	--	24	▶	3RH11 40-1BB40	1 unit	0.260	▶	3RH11 40-2BB40	1 unit	0.260
				220	▶	3RH11 40-1BM40	1 unit	0.260	▶	3RH11 40-2BM40	1 unit	0.260
				31 E	3	1	24	▶	3RH11 31-1BB40	1 unit	0.260	▶
220	▶	3RH11 31-1BM40	1 unit	0.260			▶	3RH11 31-2BM40	1 unit	0.260		
22 E	2	2	24	▶	3RH11 22-1BB40	1 unit	0.260	▶	3RH11 22-2BB40	1 unit	0.260	
			220	▶	3RH11 22-1BM40	1 unit	0.260	▶	3RH11 22-2BM40	1 unit	0.260	
With permanently mounted auxiliary switch block												
6	44 E	4	4	24	▶	3RH12 44-1BB40	1 unit	0.310	▶	3RH12 44-2BB40	1 unit	0.310
				62 E	6	2	24	▶	3RH12 62-1BB40	1 unit	0.310	▶

For other voltages see page 3/36.

¹⁾ Coil operating range
at 50 Hz: 0.8 to 1.1 × U_s
at 60 Hz: 0.85 to 1.1 × U_s .