

GC-R48

Remote I/O modules Interlock switches type (8-pin)

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		GC-R48
Maximum number of connected units		4 (GC-R45 and GC-R48 can be connected together)*1
Safety input specifications	Input device	Contact output device or PNP output device
	Input type	Type3
	ON level (voltage/current)	Min. 11 V/2 mA
	OFF level (voltage/current)	Max. 5 V/1.5 mA
	Short-circuit current	Approx. 3 mA
	Protection circuit	Surge protection circuit, wrong wiring protection circuit
	Maximum cable length	Max. 100 m 328.1'
Safety output specifications	Output type	PNP transistor output (DC-13, Type 0.5, Protected outputs)*2 (GC-R48 Pin 3: Lock control output)
	Maximum load current	500 mA (GC-R48 Pin 3: Lock control output)
	Residual voltage (during ON)	Max. 2.0 V (GC-R48 Pin 3: Lock control output)
	Leakage current (during OFF)	Max. 0.5 mA (GC-R48 Pin 3: Lock control output)
	Maximum capacitive load	0.5 µF (GC-R48 Pin 3: Lock control output)
	Protection circuit	Overcurrent protection circuit (GC-R48 Pin 3: Lock control output)
	Maximum cable length	Max. 30 m 98.4' (GC-R48 Pin 3: Lock control output)
Test output specifications	Output type	PNP transistor output (DC-13, Type 0.5, Protected outputs)*3
	Maximum load current	100 mA*3
	Protection circuit	Overcurrent protection circuit*3
	Maximum cable length	Max. 100 m 328.1'*4*3
AUX output specifications	Output type	-
	Maximum load current	
	Residual voltage (during ON)	
	Leakage current (during OFF)	
	Protection circuit	
	Maximum cable length	
Power supply output	Supported pin	Pin 2*3
	Power supply capability	Max. 0.5 A*3
	Protection circuit	Overcurrent protection circuit*3
Applicable standards	EMC	EMS: IEC 61131-2/-6, EN61131-2/-6, EMI: IEC 61131-2, FCC Part15B Class A, ICES-003, Class A
	Safety	IEC 61508, EN 61508 SIL3, IEC62061 SIL CL3, ISO/EN 13849-1:2015 Cat. 4, PL e, UL1998
Dimensions		64.8×141.5×34.5 mm 2.55"×5.57"×1.36" (W×D×H)
Power supply	Power voltage	24 VDC (-20 to +20 %) Class 2

	Power consumption	Max. 90 mA
Enclosure ratings		IP65/67 (IEC 60529) (TÜV SÜD certified)
Environmental resistance	Ambient temperature	−10 to +55 °C 14 to 131 °F (No freezing)
	Relative humidity	5 to 85 % (No condensation)
	Storage temperature	−25 to +70 °C -13 to 158 °F (No freezing)
	Operating altitude	Max. 2000 m 6561.7'
	Overvoltage category	II
	Pollution degree	2
	Vibration resistance	Frequency: 5 to 9 Hz, Half amplitude: 3.5 mm 0.14" Frequency: 9 to 150 Hz, Acceleration: 10 m/s² 10 times each in X, Y, Z directions
	Shock resistance	Acceleration: 150 m/s², Operating time: 11 ms, 3 times each in X, Y, Z directions
Material		PBT (GF 30 %), SUS304
Weight		Approx. 420 g

*1 When connecting multiple remote I/O modules, power needs to be supplied to each remote I/O module.
*2 Paragraph 6.4.6 Temporary overload of IEC 61131-2 supports up to 1.2 times the maximum load current.
*3 Power supply outputs and test outputs do not comply with paragraph 6.4.6 of IEC 61131-2.
*4 When the test output is branched and connected to multiple safety input devices, the total branched cable length must not exceed 400 m 1312.3'.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

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