

GC-S16

Safety input unit

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

Specifications

Model		GC-S16
Input/output points	Safety inputs	16
	Safety outputs	-
	Safety relay output	
	AUX outputs	
	Test outputs	4
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. 5 mA
	Protection circuit	Surge protection circuit, wrong wiring protection circuit
	Maximum cable length	Max. 100 m 328.1'
Safety output specifications	Output type	-
	Maximum load current	
	Residual voltage (during ON)	
	Leakage current (during OFF)	
	Maximum capacitive load	
	Load wiring resistance	
	Protection circuit	
	Maximum cable length	
Safety relay output specifications	Output type	
	Rated load (resistance load)	
	Rated load (inductive load)	
	Relay output mechanical life	
	Maximum cable length	
	B10d	
Test output specifications	Output type	PNP transistor output*1
	Maximum load current	100 mA*1
	Protection circuit	Overcurrent protection circuit, reverse connection protection circuit*1
	Maximum cable length	Max. 100 m 328.1'*2*1
AUX output specifications	Output type	-
	Maximum load current	
	Residual voltage (during ON)	
	Leakage current (during OFF)	

	Protection circuit	
	Maximum cable length	
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		22.2×95×90 mm 0.87"×3.74"×3.54" (W×D×H)
Power supply	Power voltage	-
	Power consumption	Max. 50 mA
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		Polycarbonate
Weight		Approx. 130 g

*1 Test outputs do not comply with paragraph 6.4 of IEC 61131-2.
*2 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.

GC-S16





