



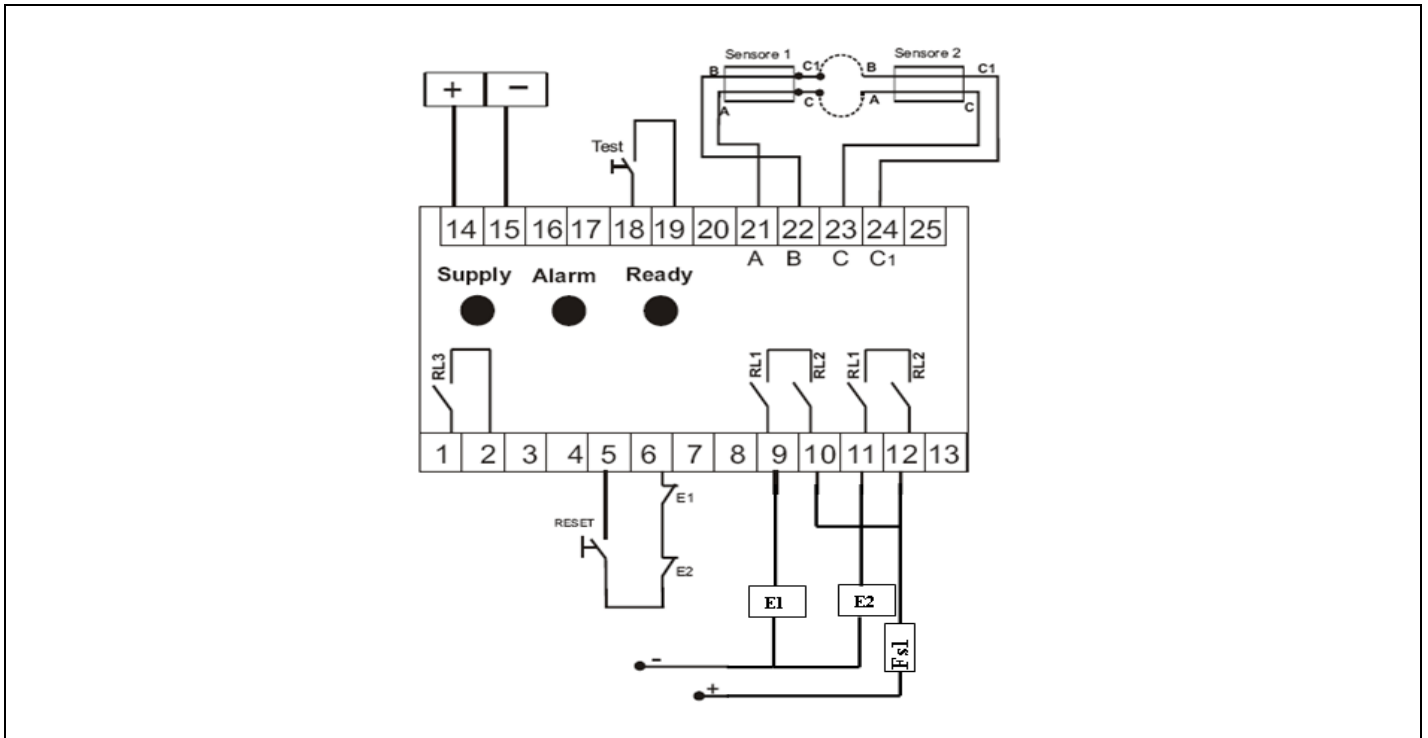
ELECTRONIC CONTROL DEVICE TYPE GP02/E-S2

Features: Control unit for safety stop of a standard blade contact safety sensor of a mats, edge or shock absorber with one OUTPUT SAFETY CONTACT and one SIGNALING CONTACT.

The safety contact, normally energized, will open in case of no power supply, operation of the sensor, interruption of the sensor or cut-off to the relative wiring to the sensor. The unit is normally supply with **AUTOMATIC RESET** but could be transformed into **MANUAL RESET** by the user

Classification		
Reference standard		EN ISO 13849-1, EN 13856 part 1, 2 e 3, EN 60947-5-1, EN 50205 type A
PL		e
Category		3
PFH (1/h)		4,29*10 ⁻⁸
Usage categories		
N° of operations/year	Combined with mat	AC1(230V) – 3A - DC13 (24V) – 1,5 A 50000
	Combined with bumper	AC1(230V) – 1,5A - DC13 (24V)1,5 A – AC15 (230V) –2A 7000
	Combined with edge	AC1(230V) – 1,5A - DC13 (24V)1,5 A – AC15 (230V) –2A
	Mission Time (years)	20
Electrical data		
Supply voltage		24 VDC ± 10%
Current consumption with mat activated (24VDC)		15 mA
Current consumption with reset module (24VDC)		90 mA
International protection of power supply		YES (1 A)
Inputs		
Input short-circuit detection		YES
Input connection interruption detection		YES
Max length of connection cables		100 m
Min section of connection cables		0,35 mm ² (1 mm ² for cable length >20 m)
Max resistance of sensor		100 ohm
Voltage applied to inputs		24 VDC
Max current (peak value)		200 mA
Safety outputs		
Number of safety outputs		2
Rated voltage/Max switchable voltage VAC / VDC		230 / 300
Max switchable current AC15 230 VAC / DC13 24VDC (A)		4 / 2
Max switchable AC power (VA)		1500
Nominal current AC15 230 VAC / DC13 24VDC (A)		1,5 / 1,2
Material of standard contacts		AgSnO2
Rated supply voltage	V AC50/60hz	-
	V DC	24
Rated power AC/DC VA (50HZ)/W		- / 0,25
Delay to energizing (reset)		12 ms (typical)
Delay to de-energizing (trip)		17 ms (typical)
Protection against over-current		4 A fast / 2 A delayed
Mechanical life		10 ⁷
Signal outputs		
Number of signal outputs		1
Max operation voltage	VAC	125
	VDC	30
Max. current 110VAC		0,2A
Max. current 24VDC		0,5A
Environmental characteristics		
Operating temperature [°C]		0 / +55
Storage temperature [°C]		-20 / +70
Max relative humidity		85%
Degree of protection of terminals		IP20
Degree of protection of casing		IP30
Dimensions		
Width [mm]		72
Height [mm]		90
Depth [mm]		70
Weight [g]		230
Material of the casing / Installation		ABS self-extinguishes / DIN RAIL Omega 35mm

DIAGRAM CONNETTION GP02/E-S2



Conessioni	
1-2	Signalling contact. Open when the sensor is OK and no activated
5-6	Input contact for reset and feedback
9-10	Safety contact
11-12	Safety contact
14	Power supply (+)
15	Power supply (-)
18-19	Test
21-22	Sensor supply
23-24	Sensor feedback
Led di segnalazione	
Led supply Red	Red – Power on
Led alarm Red	Red – Sensor failure or activated
Led ready Green	Green - Sensor OK (no activated)

E-E1 - external emergency contacts (by installer)

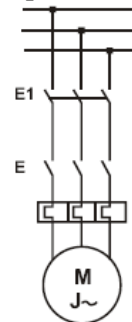
Direct stop



Stop with two contactors



Motor Stop with two contacts

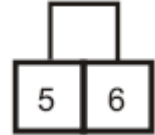


ATTACHED RESET / FEEDBACK GP02/E-S2

Automatic Reset

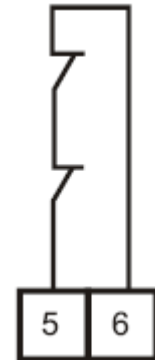
Without feedback

- Shunt 5 -6
- Insert jumper j1 - j2 - j3 - j4 (see attached fig. A)



With feedback

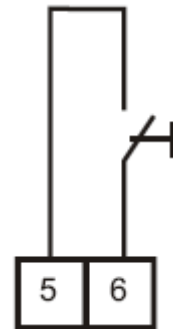
- Insert jumper j1 - j2 - j3 - j4 (see attached fig. A)
- Link feedback loop to 5 - 6 terminals



Manual Reset

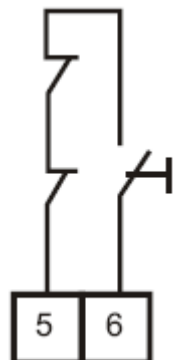
Without feedback

- Insert jumper j1 - j2 - j3 - j4 - j34 (see attached fig. B)
- Link reset button, NO without supply on 5 - 6 terminals



With feedback

- Insert jumper j1 - j2 - j3 - j4 - j34 (see attached fig. B)
- Link reset button, NO without supply on 5 - 6 terminals
- Link feedback loop in series with reset button



N.B:

Electronic device configuration is provided upon guest's request.

In the case a change in the configuration is needed, follow carefully the instructions written above. Please contact the provider for any doubt.

POSITIONING DIAGRAM OF JUMPER FOR MANUAL OR AUTOMATIC RESET SELECTION GP02/E-S2

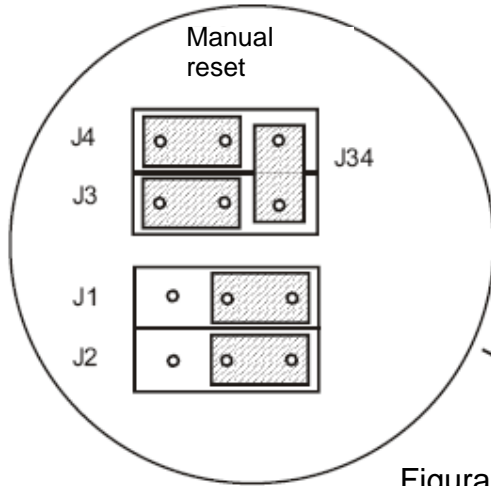


Figura B

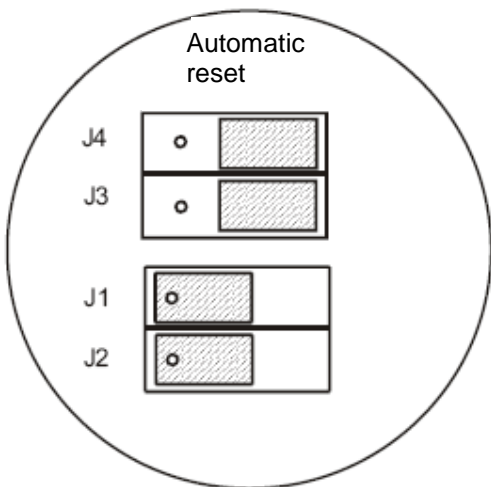


Figura A

