

# **ELECTRONIC CONTROL DEVICE GP02R**



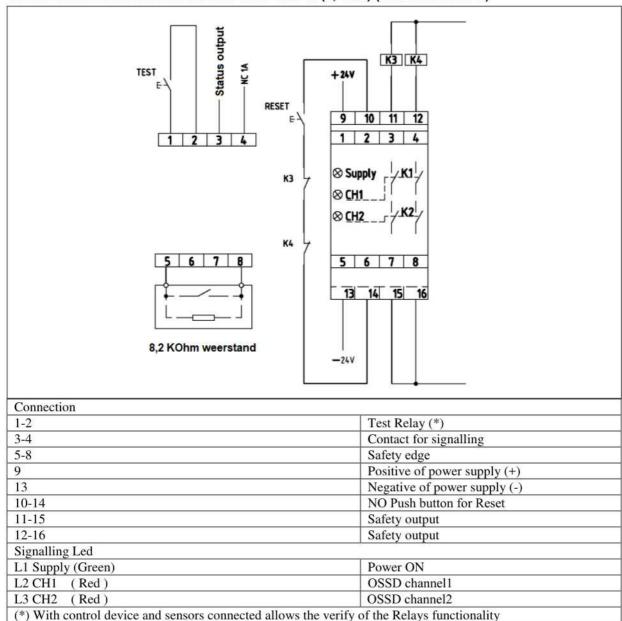
**Features**: Control unit for safety stop of resistive (value 8,2  $K\Omega$ ) safety sensor. Closing of sensor contact will act the opening of the safety contact of the control unit. The control unit verify also the short circuit or the cut-off of the sensor or to the relative connection wiring



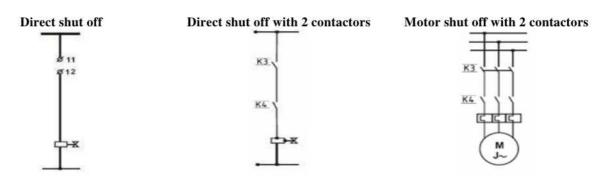
# TECHICAL DATA SHEET GP02R-8,2K - GP02R-C 8,2K

Classification	. 5 01	02n-0,2N - GP02	,		
Reference standard			EN ISO 13849-1, EN 1760 part 2,		
Activities standard			EN 1360 13849-1, EN 1760 part 2, EN 60947-5-1, EN 50205 (type A)		
PL				е	
DC[%]			On th	ne average	
Categoria				3	
PFH (1/h)			4,29*10 <sup>-8</sup>		
Usage categories					
N° of operations/year	50000 (with a mat)		AC15(230) – 1,2 A	AC1(230) 2 A DC13 (24) 1 A	
	7000 (with a but		AC15(230) - 4 A	AC15 (230)/DC13(24) 3 A	
	5000 (with a ed	ge)	AC15 (230) 4 A	AC15 (230)/DC13(24) 3 A	
Mission time [year]				20	
Electrical data			<u> </u>		
Supply voltage			24 VDC ± 10%		
Corrent consumption with mat activated (24VDC)			15 mA		
Corrent consumption with reset module (24VDC)			≤ 120 mA		
•					
Inputs					
Input short-circuit detection			yes		
Input connection interruption detection			yes		
Max length of connection cables			100 m		
Min section of connection	r cables			$0.35 \text{ mm}^2 (1 \text{ mm}^2 \text{ for cable lenght } > 20 \text{ m})$	
Max resistance of sensor			40 ohm (20 ohm per canale)		
Voltage applied to inputs			24 VDC		
Max current			200 mA		
Cofety output					
Safety output Number of safety outputs			2		
	abla valtaga IVA	CADCI	230 / 300		
Rated voltage/Max switchable voltage [VAC/VDC]  Max switchable AC15 (230V) / DC13 VDC[A]			4/2		
		[A]	1500		
Max switchable AC power [VA] Nominal current AC15 (230V) / DC13 VDC[A]			1,5 / 1,2		
Materiale of standard contacts			AgSnO <sub>2</sub>		
Rated supply voltage	tue to	V AC (50/60 Hz)	11	-	
rance supply cominge		V DC		24	
Rated power AC/DC VA	(50 Hz)/W		-/0,25		
Delay to energizing (reset)			12 ms		
Delay to de-energizing (trip)			17 ms		
Protection against over-current			4 A fast / 2 A delayed		
Mechanical life			107		
Signal outputs					
Number of signal outputs				1	
Max operation voltage VAC			125		
g-	VDC		30		
Max current 110VAC			0,2A		
Max.current 24VDC			0,5A		
F	:-4!				
Environmental characteristics			20 / 55		
Operating temperature [°C]			-20 / 55 -25 /+70		
Storage temperature [°C]			-25 /+/0 85%		
Max relative humidity  Degree of protection of terminals			IP20	IP20	
Degree of protection of ca			IP30	IP56	
			1150	1 11 10 11 11 11 11 11 11 11 11 11 11 11	
Dimensions					
Width[mm]			22,5	120	
Height [mm]			114	75	
Depth [mm]			99	155	
Weight [g]			140	410	
Material of the casing					
Material of the casing Installation			PA66-FR DIN rail Omega 35mm	GW PLAST 75 DIN RAIL by screws	

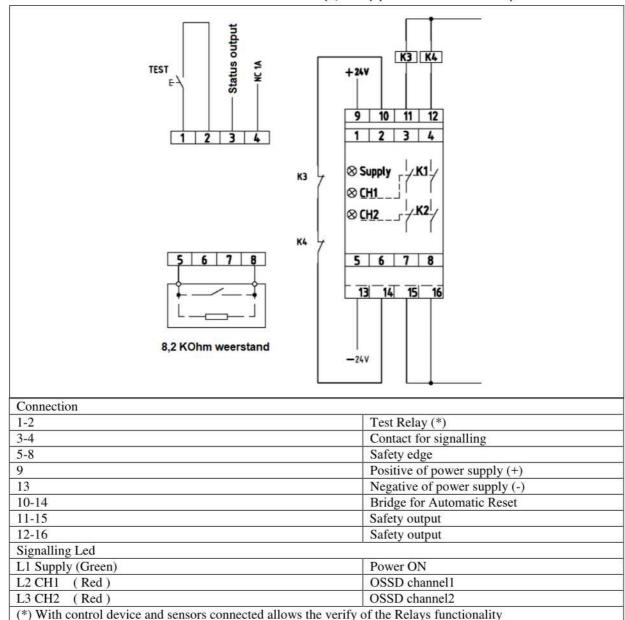
## CONNECTION DIAGRAM CONTROL UNIT GP02R (8,2 KΩ) (MANUAL RESET)



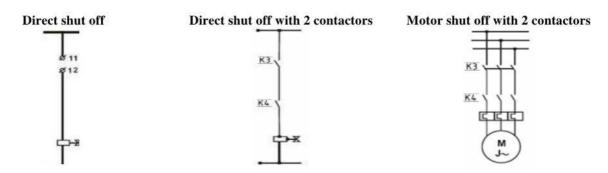
K3, K4 – External emergency safety contactors (at customer care)



## CONNECTION DIAGRAM CONTROL UNIT GP02R (8,2 KΩ) (AUTOMATIC RESET)



K3, K4 – External emergency safety contactors (at customer care)



Trouble shooting	L1 Supply	L2 CH1	Led CH2
Sensor not activated Unit not restarted	ON	OFF	OFF
Sensor not activated Unit restarted	ON	ON	ON
Sensor activated	ON	OFF	OFF
Sensor faulty	ON	OFF	OFF
CH1 faulty	ON	OFF	ON
CH2 faulty	ON	ON	OFF

## RESET / FEEDBACK GP02R

### **Automatic Reset**

Without feedback: Link terminals 10 and 14. Insert JP2 between B and C inside the card.

With feedback: Connect the feedback circuit between terminals 10 and 14. Insert JP2 between B and C inside the card

### **Manual Reset**

Without feedback: Link reset contact (N.O.) between terminals 10 and 14. Insert JP2 between A and B inside the card

<u>With feedback</u>: Connect the feedback circuit on series of reset contact (N.O.) between terminal 10 and 14. Insert JP2 between A and B inside the card

## Bridge inside the card.

