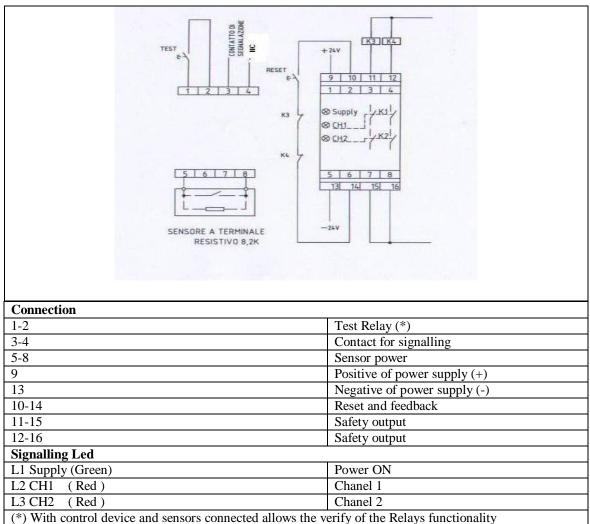


CONTROL UNIT TYPE GP02R (8,2 K Ω)

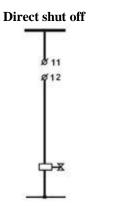
Features : Control unit for safety stop of resistive (value $8,2 \text{ K}\Omega$) safety sensor. Closing of sensor contact will act the opening of the safety contact of the control unit. The control unit verify also the short circuit or the cut-off of the sensor or to the relative connection wiring

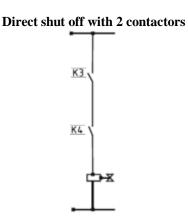
Classification				
Reference standard			EN ISO 13849-1, EN 1760 part 1, 2 e 3, EN 60947-5-1, EN 50205 (type A)	
PL			Е	
Category			3	
PFH (1/h)			4,29*10 ⁻⁸	
N° of operations/year			50000	
Usage categories			AC15 – 1,2 A	
Mission Time (years)			20	
Electrical data			20	
Supply voltage			24 VDC ± 10%	
Current consumption with mat activated (24VDC)			12 mA	
Current consumption with mat activated (24VDC)			110 mA	
International protection of power supply			SI (280 mA)	
			51 (200 IIIA)	
Inputs Input short-circuit detection			SI	
Input short-circuit detection Input connection interruption detection			SI	
Max length of connection cables				
Max length of connection cables Min section of connection cables			$\frac{100 \text{ m}}{0.25 \text{ mm}^2 (1 \text{ mm}^2 \text{ for askla longth } > 20 \text{ m})}$	
Min section of connection cables Max resistance of sensor			$0,35 \text{ mm}^2 (1 \text{ mm}^2 \text{ for cable length } >20 \text{ m})$	
			100 ohm	
Voltage applied to inputs			24 VDC	
Max current (peak value)			2 mA	
Safety outputs			2010	
Number of safety outputs			2 NO	
Rated voltage/Max switchable voltage VAC			230 / 300	
Rated current			4/2	
Material of standard contacts			AC12 230 VAC 1,5° DC13 24VDC 1,2A	
Rated supply voltage			4.5.0	
Material of standard contacts Rated supply voltage V AC50/60hz			AgSnO ₂	
Rated supply voltage		V AC30/0011Z	24	
Pated power AC/DC VA (50 Hz)/W		V DC		
Rated power AC/DC VA (50 Hz)/W			-/0,25	
Delay to energizing (reset) / de-energizing (trip)			< 25 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	
	VDC		30	
Max. current 110VAC		0,2A		
Max. current 24VDC			0,5A	
Environmental characteristics				
Operating temperature [°C]			-25 / +50	
Storage temperature [°C]			-25 /+70	
Max relative humidity			85%	
Degree of protection of terminals			IP20	
Degree of protection of casing			IP30	
Dimensions				
Width [mm]			22,5	
Height [mm]			114	
		99		
Depth [mm]			99	
Depth [mm] Weight [g]			140	
Depth [mm]				

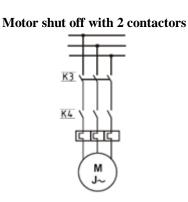
CONNECTION DIAGRAM CONTROL UNIT GP02R (8,2 KΩ)



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