



Emergency stop and safety gate monitoring relays + with time-delay

LINE	gency stop and salety gate monitoring re	Printing 11.03.2016
	DEVICE	SAFE T
		Emergency stop and safety gate monitoring relay with immediate and
		delayed outputs
		2 NO 2 NO start up delayed 1 NC
	CONTACTO	cross circuit protection or single-channel
\implies	SPECIAL CHARACTERISTICS	Time delay 0.05 s – 600 s in 64 steps.
		automatic or manually start with start button
\rightarrow	LED	Power, channel 1, cannel 2, channel 1 and channel 2 time-delayed
		24 V AC / DC (+ 25 - 20 %) (electronic fuse)
	OPERATING VOLTAGE	
	POWER CONSUMPTION	ca 48W
	START UP DELAY / FALLBACK TIME	<400ms / <30 ms / adjustment
\rightarrow	CONTACT CAPACITY max.	6 A. 250 V AC. 24 V DC
	CONTACT CAPACITY min. at 24 V DC (*)	6 mA
\rightarrow	SIMULTANEITY	SAFE TN: 1 s / SAFE TA,TR: 3 s / TU: infinite
\rightarrow	ENVIRONMENTAL TEMPERATURE	- 25°C to + 55°C
\rightarrow	SWITCHING CAPACITY	1500 VA (resistive load)
	CONTACT SECURITY	3,6 A
	OPERATING MODE (*) We offer all devices who have a CONTACT CAPACITY of min. 100 mA at 24 V DC with hard gold-plated contacts. In this way the CONTACT CAPACITY of min. 100 mA is only 4 mA. Please ask our sales team!	 When releasing E-Stop button or opening the safety gate (E-Stop circuit are open) the contacts 13-14 and 23-24 (outputs) open. The contacts 47-48 / 57-58 open delayed at the adjusted time. SAFE TN: standby time after applying of the supply voltage <0,95 s. Opening of the E-Stop circuits meanwhile results to failure. SAFE TA: standby time after applying of the supply voltage <0,95 s. Opening of the E-Stop circuits meanwhile results to several activations of the outputs after the standby time. SAFE TR: restart is possible during standby time. SAFE TU: standby time after applying of the supply voltage <0,95 s. Opening of the E-Stop circuits meanwhile results to several activations of the outputs after the standby time.
	CONNECTION DIAGRAM	Start St
	FUNCTION CIRCUIT DIAGRAM	A1 S35 S10 S11 S12 13 23 31 47 57 Logic $K1$ H t = 0.055600s $HK4H$

Certifications according to Safety relevant substance data Depending on wiring (only max. achievable values are given)

EN ISO 13849-1 / EN 62061: PLe, Cat. 4 / SIL3, SIL CL3 PFH: 3,4*10^{9 1}/_h, PFD: 9,32*10^{6 1}/_h, SFF: 94%, MTTFd: >100 years / high, DC: 99% / high, CCF: achieved

A2 S33 S34 S21 S22 14 24 32