

Datasheet

Art.No. R1.188.3700.0

Device for monitoring of safety-related circuits

Base unit EN 574 type IIIA, two-channel control, 2x N.C./N.O. startup inhibit circuit, synchronous time monitoring, enabling current path 1 change over contact, AC/DC 24 V 50-60Hz, screw-terminals plugable



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EAN	4049088124051
Order unit	1 pieces

Approvals



Technical data

General

Function display	2 LED, green
Creepage distances and clearances between the circuits	EN 60664-1
Protection degree according to DIN EN 60529 (housing)	IP40
Protection degree according to DIN EN 60529 (terminals)	IP20
Ambient temperature min.	-25 °C
Ambient temperature max.	55 °C
Wire ranges screw terminals, fine-stranded / solid	1 x 0,14 mm ² - 2,5 mm ² / 2 x 0,14 mm ² - 0,75 mm ²
Wire ranges screw terminals, fine-stranded with ferrules	1 x 0,25 mm ² - 2,5 mm ² / 2 x 0,25 mm ² - 0,5 mm ²
Permissible torque min.	0.5 Nm
Permissible torque max.	0.6 Nm
Tightening moment	0.6 Nm
Wire range cage clamp terminals	2 x 0,25mm ² - 1,5mm ²
Weight	0.1 kg
Standards	EN ISO 13849-1;EN 62061;EN 574

Output circuit

Enabling paths	change-over contact
Contact material	Ag-alloy
Rated switching voltage, enabling paths AC	230 V
Max. thermal current I _{th} , enabling paths	6 A
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 2A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral
Mechanical life	107 switching cycles

Control circuit

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	2.5 mA
max. peak current (safety circuit / reset circuit)	3 mA
Response time tA1	20 ms
Response time tA2	20 ms
Recovery time tW	250 ms
Release time tR	20 ms
Synchronous time tS	500 ms
max. resistivity, per channel	$\leq (5 + (1,176 \times U_B / U_N - 1) \times 100) \Omega$

Supply circuit

Nominal voltage U _N	AC/DC 24 V
Rated consumption AC	2 VA
Rated consumption DC	0.7 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Electrical isolation supply circuit - control circuit	yes (at U _N = AC 115-230 V)

Dimensions

Depth	85.2 mm
Width	22.5 mm
Height	96.5 mm