

Datasheet

Item No. R1.188.3580.0

Device for monitoring of safety-related circuits SNO 408:

Base unit also for elevators EN 81-1/2 and heaters EN50156-1 single-channel or two-channel control, automatic or manual reset with monitoring, cross circuit monitoring, 3 enabling current paths, 1 signalling output, DC 24 V, screw-terminals pluggable



Item No.	R1.188.3580.0
EAN	4049088070884
order unit	1 Piece(s)

Approvals



Technical data

General

ArticlePrice	udp_no_price
Function display	3 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.	65 °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	0.2 kg
Standards	EN ISO 13849-1 EN 62061 EN 81-1 EN 50156-1
Suited for safety functions	Yes
Category according to EN 954-1	4
Muting possible	No
Feedback circuit	Yes
Start contact	Yes
Performance level acc. to EN ISO 13849-1	e
Rail mounting possible	Yes

Connection Data

Detachable clamps	Yes
Type of electric connection	Screw connection

Application

Model	Basic device
Suitable for monitoring of magnetic switches	Yes
Suitable for monitoring of proximity switches	Yes

Suitable for monitoring of emergency-stop circuits	Yes
Suitable for monitoring of optoelectronic protection equipment	Yes
Suitable for monitoring of position switches	Yes

Output circuit

Enabling paths	3
Signaling paths	1
Contact material	Ag-alloy, gold-plated
Max. thermal current I _{th} , enabling paths	6 A
Max. thermal current I _{th} , signaling paths	2 A
Max. total current I ₂ of all current path	25 A ²
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 5A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral < 100 A ² s
Mechanical life	107 switching cycles

Control circuit

Nominal output voltage DC	22.5 V
Input current (safety circuit / reset circuit)	25 mA
max. peak current (safety circuit / reset circuit)	100 mA
Response time tA1	250 ms
Response time tA2	250 ms
Min. switch-on time	60 ms
Recovery time tW	120 ms
Release time tR	20 ms
Synchronous time tS	1.5 s
Permissible test pulse time tTP	0.8 ms
max. resistivity, per channel	$\leq (5 + (1,176 \times U_B / U_N - 1) \times 100) \Omega$
Type of switch function of the inputs	Normally open contact
Evaluation inputs	2-channel

Supply circuit

Nominal voltage U _N	DC 24 V
Rated consumption DC	1.6 W
Operating voltage min.	22.4 V
Operating voltage max.	26.4 V

Dimensions

Depth	114 mm
Width	22.5 mm
Height	96.5 mm