

Datasheet

Art.No. R1.188.0530.1

Two-hand control relay SNZ4052K-A AC/DC 24V (B)

Base unit, two-channel control, 2x N.C./N.O. startup inhibit circuit, cross circuit monitoring, synchronous time monitoring, 2 enabling current paths, 1 signalling output, AC/DC 24 V 50-60Hz, screw-terminals pluggable



Art.No.	R1.188.0530.1
EAN	4015573808515
Order unit	1 pieces

Approvals



Technical data

General

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.	55 °C
Wire ranges screw terminals, fine-stranded / solid	1 x 0,2 mm ² - 2,5 mm ² / 2 x 0,2 mm ² - 1,0 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 - 1,0 mm ²
Permissible torque min.	0.5 Nm
Permissible torque max.	0.6 Nm
Tightening moment	0.6 Nm
Weight	0.2 kg
Standards	EN ISO 13849-1 EN 62061 EN 574; EN 62061; EN 574
Suited for safety functions	Yes
Category according to EN ISO 13849-1	4
Muting possible	No
Feedback circuit	Yes
Start contact	No
Performance level acc. to EN ISO 13849-1	e
SIL according to IEC 62061	3
Stop category acc. to IEC 60204	0
Rail mounting possible	Yes
Applicable in accordance with EN 574	Type III C

Connection Data

Detachable clamps	Yes
Type of electric connection	Screw connection

Output circuit

Enabling paths	Normally open contact
Signaling paths	Opener
Contact material	Ag-alloy, gold-plated
Rated switching voltage, enabling paths AC	230 V
Rated switching voltage, enabling paths DC	24 V
Rated switching voltage, signaling paths AC	230 V
Rated switching voltage, signaling paths DC	24 V
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	9 A ²
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 2,5A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral
Mechanical life	107 switching cycles
Outputs, signalling function, undelayed, with contact	1
Outputs, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	2
Outputs, safe, delayed, with contact	0

Control circuit

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	60 mA
max. peak current (safety circuit / reset circuit)	1000 mA
Response time tA1	40 ms
Response time tA2	40 ms
Min. switch-on time	40 ms
Recovery time tW	> 250 ms
Release time tR	50 ms
Synchronous time tS	≤ 500 ms
max. resistivity, per channel	≤ (5 + (1,333 x U _B / U _N - 1) x 200) Ω
Type of switch function of the inputs	NC/NO
Evaluation inputs	2-channel

Supply circuit

Nominal voltage U _N	AC/DC 24 V
Rated consumption DC	2.4 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Electrical isolation supply circuit - control circuit	No
Min. rated control supply voltage at AC 50 Hz	20.4 V
Max. rated AC voltage for controls, 50 Hz	26.4 V
Min. rated DC voltage for controls	20.4 V
Max. rated DC voltage for controls	26.4 V
Min. rated control supply voltage at DC	20.4 V
Rated control supply voltage at AC 60HZ	20.4 V
Rated control supply voltage at AC 50HZ	26.4 V

Dimensions

Depth	114 mm
Width	22.5 mm

Height	96.5 mm
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Classification

ECLASS 8.1	27371821: Two-hand control relay
ETIM 5.0	EC001452: Two-hand control relay
ETIM 4.0	EC001452: Two-hand control relay
ETIM 3.0	EC001452: Two-hand control relay

Application

Model	Basic device
Suitable for monitoring of magnetic switches	No

Drawings

