

Datasheet

Art.No. R1.188.3930.0

Expansion device for basic devices in safety applications
SNE4024K-A DC 24V

Output expansion unit, 2x2 enabling current paths, 2x1 signalling outputs, DC 24 V, screw-terminals pluggable



Art.No.	R1.188.3930.0
EAN	4049088166198
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.	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
Weight	0.18 kg
Standards	EN ISO 13849-1; EN 62061
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
Stop category acc. to IEC 60204	
Rail mounting possible	Yes

Connection Data

Detachable clamps	Yes
Type of electric connection	Screw connection

Application

Model	Expansion device
Suitable for monitoring of magnetic switches	No
Suitable for monitoring of emergency-stop circuits	No
Suitable for monitoring of optoelectronic protection equipment	No
Suitable for monitoring of position switches	No
Suitable for monitoring of valves	No

Output circuit

Enabling paths	4
Signaling paths	2
Contact material	Ag-alloy, gold-plated
Max. thermal current I _{th} , enabling paths	6 A
Max. thermal current I _{th} , signaling paths	1 A
Max. total current I _z of all current path	144 A ²
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 1A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral
Mechanical life	107 switching cycles
Outputs, signalling function, delayed, with contact	0
Outputs, safe, delayed, with contact	0

Control circuit

max. peak current (safety circuit / reset circuit)	110 mA
Recovery time t _W	30 ms
Release time t _R	15 ms
max. resistivity, per channel	$\leq (5 + (1,333 \times U_B / U_N - 1) \times 200) \Omega$

Supply circuit

Nominal voltage U _N	DC 24 V
Rated consumption DC	1.4 W

Dimensions

Depth	114 mm
Width	22.5 mm
Height	96.5 mm

Classification

ETIM 4.0	EC001449: Device for monitoring of safety-related circuits
ETIM 3.0	EC001449: Emergency-stop relay

