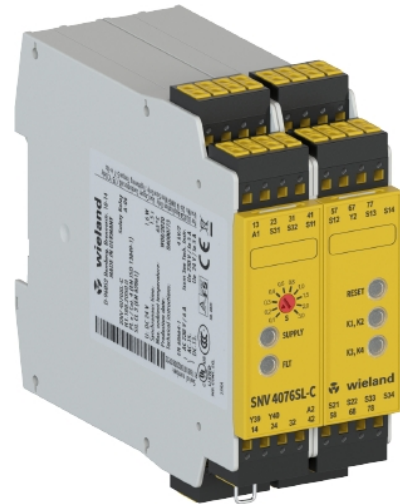


Data sheet

Commercial Art.No.: R1.188.2080.0

Device for monitoring of safety-related circuits SNV4076SL-C 30S DC 24V

Base unit, single-channel or two-channel control, automatic-/manual reset with reset switch monitoring, 3 immediately switching current paths, 3 enabling current path off-delayed not retriggerable, 0 - 30s, DC 24 V, push-in terminals pluggable



Commercial Art.No.	R1.188.2080.0
EAN	4046521300164
Order Unit	1

Certificates / Approvals



Technical data

General

Function display	5 LED, grün/rot
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 range cage clamp terminals	2 x 0,25mm ² - 1,5mm ²
Weight	0.33 kg
Standards	EN ISO 13849-1EN 62061
Suited for safety functions	yes
With muting function	No
Feedback circuit	yes
Start contact	yes
Stop category acc. to IEC 60204	1
Rail mounting possible	yes

Connection Data

Detachable clamps	yes
Type of electric connection	spring clamp connection

Application

Model	Basic device
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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	Normally open contact
Enabling paths, time delayed	Normally open contact, off delay
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	40 A ²
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 3A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral < 100 A ² s
Mechanical life	10 ⁷ switching cycles
Outputs, signalling function, undelayed, with contact	1
Outputs, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	3
Outputs, safe, delayed, with contact	3

Control circuit

Response time tA1	200 ms
Response time tA2	200 ms
Min. switch-on time	100 ms
Recovery time tW	> 50 ms
Release time tR	< 20 ms
Release time tR, delayed contacts (tolerance)	0 - 30 s (+- 0,1 %, +- 15ms)
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	2.8 W
Electrical isolation supply circuit - control circuit	No
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

Dimensions

Depth	114 mm
Width	45 mm
Height	106.5 mm

Classification

ECLASS 11	
ECLASS 8.1	27371819
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

Safety parameters

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL _{CL} (IEC 62061)	3
PFD _d (Low demand mode)	8.7 E-6
PFH _d (High demand mode)	2 E-9 1/h
HFT	1
SSF	99.7 %
DC	99 %
MTTF _d	85 a
λ_S	4586 FIT
λ_D	1346 FIT
λ_{DU}	18.9 FIT
λ_{DD}	1327.1 FIT
T _M	20 a
Proof test intervall (High demand mode)	20 a