

Data sheet

Art.No.: R1.188.3740.0

Device for monitoring of safety-related circuits SNO 1012K-A AC/DC 24V

Base unit, single channel control, 2 enabling current paths, AC/DC 24 V 50-60Hz, screw terminals pluggable



Art.No.	R1.188.3740.0
EAN	4049088129513
Order Unit	1

Certificates / 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 0,2 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	0.12 kg
Standards	EN ISO 13849-1EN 62061; EN 62061
Suited for safety functions	Yes
With muting function	No
Feedback circuit	Yes
Start contact	Yes
Stop category acc. to IEC 60204	0
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	No
Suitable for monitoring of proximity switches	Yes
Suitable for monitoring of emergency-stop circuits	Yes
Suitable for monitoring of optoelectronic protection equipment	No
Suitable for monitoring of position switches	Yes

Output circuit

Enabling paths	Normally open contact
Contact material	Ag-alloy
Rated switching voltage, enabling paths AC	240 V
Rated switching voltage, enabling paths DC	50 V
Max. thermal current I_{th} , enabling paths	6 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 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, 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)	50 mA
max. peak current (safety circuit / reset circuit)	70 mA
Response time tA1	20 ms
Response time tA2	70 ms
Min. switch-on time	30 ms
Recovery time tW	> 200 ms
Release time tR	< 70 ms
max. resistivity, per channel	$\leq (5 + (1,333 \times U_B / U_N - 1) \times 200) \Omega$
Type of switch function of the inputs	Normally open contact
Evaluation inputs	1-channel

Supply circuit

Nominal voltage U_N	AC/DC 24 V
Rated consumption AC	2 VA
Rated consumption DC	1 W
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Operating voltage min.	20.4 V
Operating voltage max.	26.4 V
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	91.5 mm
Width	22.5 mm
Height	96.5 mm

Classification

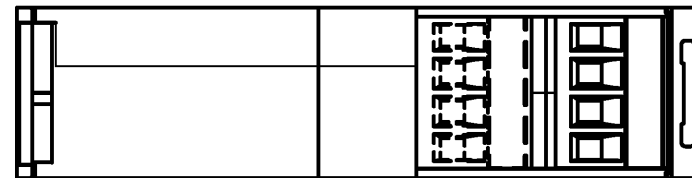
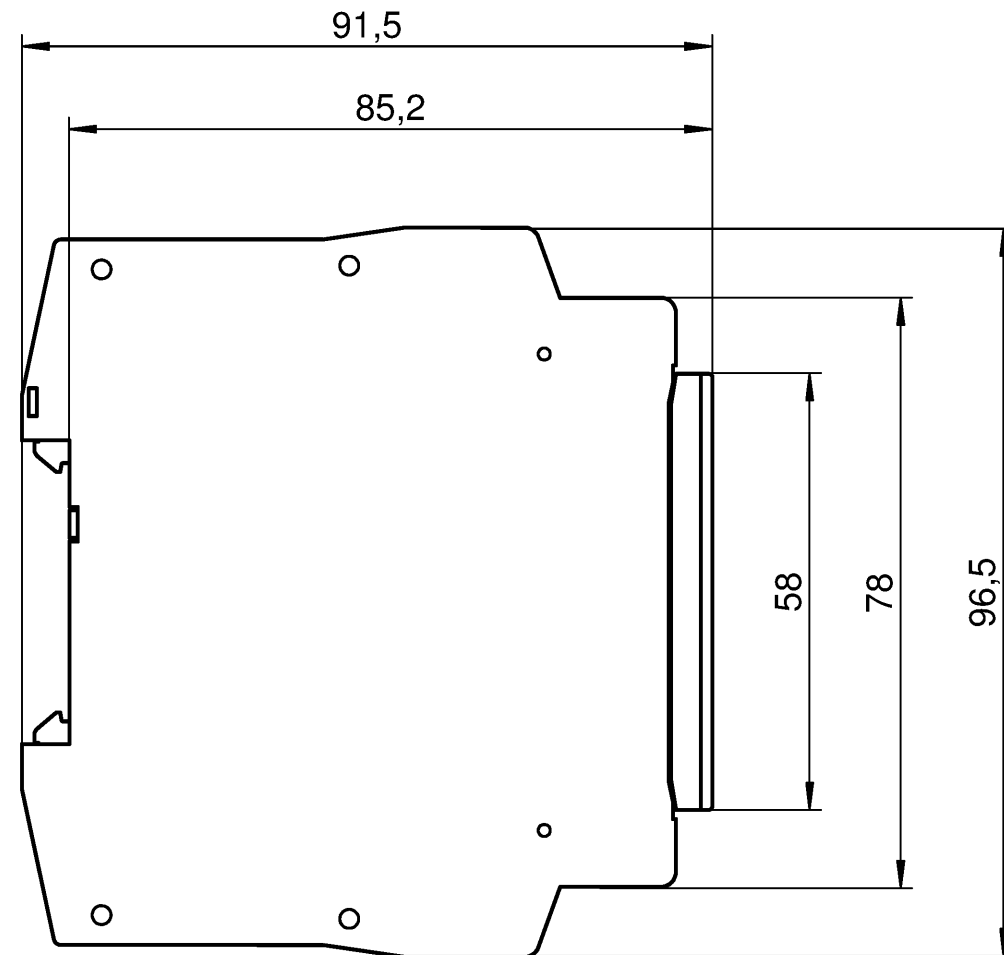
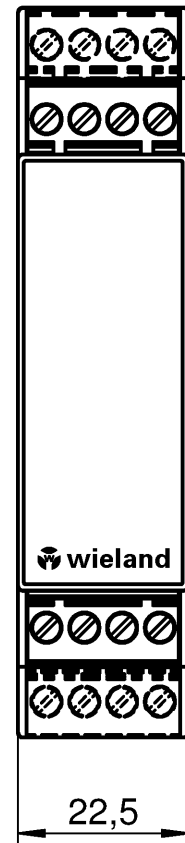
ECLASS 8.1	27371819
ETIM 7.0	EC001449
ETIM 6.0	EC001449
ETIM 5.0	EC001449
ETIM 4.0	EC001449
ETIM 3.0	EC001449

Safety parameters

Category (ISO 13849-1)	3
PL (ISO 13849-1)	Level d
SIL _{Cl} (IEC 62061)	2
PFH _d (High demand mode)	2 E-7 1/h
HFT	1
MTTF _d	58 a
T _M	20 a
Proof test intervall (High demand mode)	20 a

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Teile-Nr. / Part-No.
R1.188.3740.0
81.020.0100.0
81.020.0104.0
81.020.0105.0
81.020.0134.0
81.020.0135.0



Weitere Angaben siehe KATALOG oder eKatalog.
Additional data see CATALOG or eCatalog.

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ja/yes Stoffverbots- und Deklarationsliste nach UU-TQM-05/03 ist einzuhalten.
Conformity with Wieland document UU-TQM-05/03 (list of prohibited / declarable hazardous substances) to be declared!

Freitoleranz nach General tolerance		CAD-Zeichnung, keine manuellen Änderungen CAD drawing, no manual modifications allowed		1. Verwendung: First Use:		Blatt: Sheet:	
		Werkstoff / Material		2014 gezeichnet drawn	Tag/Date 06.06.	Name Kötzner	
		Maßstab/Scale		geprüft checked		Zeichnung Nr. / Drawing No. T R1.188.3740.0 01K	
		Datei / File: 036351_A01K_R1.188.3740.0.DCD		Normgepr. Stand. check		Maße in mm/Dimensions are in mm	
		Ersatz für / Replacement for:					
Ⓐ		17.03.15		www.wieland		Type	
Index		Datum / Blatt Date / Sheet		www.wieland-electric.com		Benennung / Title	
Änderung / Revision						Maßbildzeichnung/dimension drawing Kurzes Gehäuse und Standarddeckel, Baubreite 22,5mm, Schraubklemmen steckbar short housing and standard cover, overall 22,5mm plug-in pcb terminal	

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