

Datasheet

Art.No. R1.188.0590.0

Device for monitoring of safety-related circuits SNE4004K-A AC/DC 24V (A)

output expansion unit, 4 enabling current paths, 3 signalling outputs, AC/DC 24 V 50-60Hz, screw-terminals fixed



Art.No.	R1.188.0590.0
EAN	4015573808645
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.	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 13849-1EN 62061
Suited for safety functions	Yes
Category according to EN ISO 13849-1	3
With muting function	No
Feedback circuit	Yes
Start contact	No
Performance level acc. to EN ISO 13849-1	d
SIL according to IEC 62061	2
Stop category acc. to IEC 60204	0
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 tactile sensors	No

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	40 A ²
Application category AC-15 (NO)	Ue 230V, Ie 5A
Application category DC-13 (NO)	Ue 24V, Ie 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	3
Outputs, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	4
Outputs, safe, delayed, with contact	0

Control circuit

Response time tA1	25 ms
Response time tA2	25 ms
Recovery time tW	> 40 ms
Release time tR	20 ms
max. resistivity, per channel	≤ (5 + (1,176 x UB / UN - 1) x 100) Ω

Supply circuit

Nominal voltage UN	AC/DC 24 V
Rated consumption AC	3.3 VA
Rated consumption DC	1.6 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	114 mm
Width	22.5 mm
Height	96.5 mm

Classification

ECLASS 8.1	27371819: Device for monitoring of safety-related circuits
ETIM 6.0	: EC001449
ETIM 5.0	EC001449: Device for monitoring of safety-related circuits
ETIM 4.0	EC001449: Device for monitoring of safety-related circuits
ETIM 3.0	EC001449: Emergency-stop relay

Drawings

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	M1	M2	M3	L	0	1	11	21	11
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Weitere Angaben siehe KATALOG oder eKatalog. www.wieland-electric.com
 Additional data see CATALOG or eCatalog. eshop.wieland-electric.com

ja/yes Stoffwechsel- und Paketelektrode nach DIN 5020.010 ist einstellbar.
 Conformity with Wieland document WM 5020.010 e (list of prohibited / delectable hazardous substances) to be declared

Produktion nach Standard Sonderanfertigung
 Production with Standard Special order

CU-Verbindungsstelle
 CU-connection point

Material / Material: 2014 Top / Die: 06.06. Normzeile: Normzeile: Zeichnung Nr. / Drawing No.: T R1.188.0460.0 01K
 Blatt: Sheet:

© 22.04.16
 © 17.03.15
 © 03.02.15
 © 04.07.14
 © 25.06.14

Bestell- / Order No.: 330181_E01K.D02D
 Drawn / Gezeichnet by: Wieland / Wieland
 Type: Maßstabzeichnung/dimension drawing
 Standard drawing
 Standard housing and cover, overall with 22.5mm plug-in pcb terminal

www.wieland-electric.com

Made in Germany

Teil-Nr. / Part No.	Teil-Nr. / Part No.
R1.188.0460.0	R1.188.0910.1
R1.188.0470.0	R1.188.0940.1
R1.188.0480.0	R1.188.0950.1
R1.188.0490.0	R1.188.0960.0
R1.188.0500.0	R1.188.0970.2
R1.188.0530.1	R1.188.0720.2
R1.188.0590.0	R1.188.0980.1
R1.188.0620.0	R1.188.0990.1
R1.188.0640.0	R1.188.1010.0
R1.188.0660.0	R1.188.1050.0
R1.188.0680.0	R1.188.1060.0
R1.188.0700.2	R1.188.1070.0
R1.188.0720.2	R1.188.1120.0
R1.188.0900.1	R1.188.1280.0
R1.188.0910.1	R1.188.1340.0
R1.188.0940.1	R1.188.1440.0
R1.188.0950.1	R1.188.1450.0
R1.188.0960.0	R1.188.1460.0
R1.188.0970.2	R1.188.1480.0
R1.188.0980.1	R1.188.1810.0
R1.188.0990.1	R1.188.1820.0
R1.188.1010.0	R1.188.1830.0
R1.188.1050.0	
R1.188.1060.0	
R1.188.1070.0	
R1.188.1120.0	
R1.188.1280.0	
R1.188.1340.0	
R1.188.1440.0	
R1.188.1450.0	
R1.188.1460.0	
R1.188.1480.0	
R1.188.1810.0	
R1.188.1820.0	
R1.188.1830.0	

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