

## Product data sheet

Item No. R1.188.2100.0

### Device for monitoring of safety-related circuits SNV4076SL-A 300S DC 24V

Base unit, single-channel or two-channel control, automatic-/ manual reset with reset switch monitoring, 3 immediate switching current paths, 3 enabling current path off-delayed not retriggerable, 0 - 300s, DC 24 V, screw-terminals pluggable



|            |               |
|------------|---------------|
| Item No.   | R1.188.2100.0 |
| EAN        | 4046521300188 |
| Order Unit | 1 Piece(s)    |

#### 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 ranges screw terminals, fine-stranded / solid       | 1 x 0,2 mm <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,2 mm <sup>2</sup> - 1,0 mm <sup>2</sup>   |
| Wire ranges screw terminals, fine-stranded with ferrules | 1 x 0,25 mm <sup>2</sup> - 2,5 mm <sup>2</sup> / 2 x 0,25 mm <sup>2</sup> - 1,0 mm <sup>2</sup> |
| Permissible torque min.                                  | 0.5 Nm  |
| Permissible torque max.                                  | 0.6 Nm  |
| Tightening moment  | 0.6 Nm  |
| 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 | Screw connection |

**Application**

|  |              |
|--|--------------|
| Model  | Basic device |
| 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                                | 6 A   |
| Max. thermal current I                                | 2 A   |
| Max. total current I <sup>2</sup> of all current path | 40 A <sup>2</sup>                                       |
| 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 <sup>2</sup> s |
| Mechanical life                                       | 10 <sup>7</sup> 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 - 300 s (+ 0,1 %, +- 15ms) |
| Type of switch function of the inputs         | Normally open contact        |
| Evaluation inputs                             | 2-channel                    |

**Supply circuit**

|   |         |
|---|---------|
| Nominal voltage U                                     | 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**

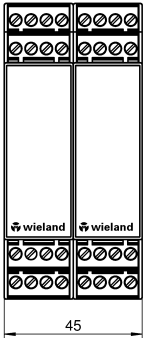
|        |         |
|--------|---------|
| Depth  | 114 mm  |
| Width  | 45 mm   |
| Height | 96.5 mm |

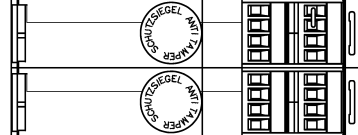
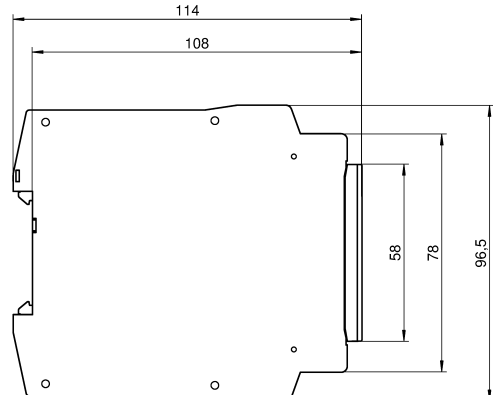
## Technical drawing

04 - PRE 12/02

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| Teile-Nr. / Part-No. |
|----------------------|
| R1.188.2040.0        |
| R1.188.2070.0        |
| R1.188.2100.0        |
| R1.188.2130.0        |
| R1.188.2160.0        |
| R1.188.2190.0        |
| R1.188.2220.0        |
| R1.188.2250.0        |
| R1.188.2280.0        |
| R1.188.2310.0        |
| R1.188.2340.0        |
| R1.188.2370.0        |
| R1.188.2470.0        |
| R1.188.2500.0        |
| R1.188.2530.0        |
| R1.188.2560.0        |
| R1.188.2590.0        |
| R1.188.2620.0        |
| R1.188.2650.0        |
| R1.188.2680.0        |
| R1.188.2710.0        |
| R1.188.2740.0        |
| R1.188.2770.0        |
| R1.188.2800.0        |
| R1.188.3120.0        |
| R1.188.3510.0        |



Wenn Maßstab angegeben ist, sind alle Abmessungen auf diesen Maßstab zu beziehen.  
 When scale of dimensioning is indicated, all dimensions are to be referred to this scale.

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

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|   |  |
|---|--|
| ja/yes <input type="checkbox"/> Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.<br>Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared |  |
| Freiheiten nach<br>General tolerance  | CAD-Zeichnung, keine manuellen Änderungen<br>CAD-Drawing, no manual modifications allowed  |
| Verwendung:<br>First Use:   | Sheet:<br>Sheet:   |
| Werkstoff/ Material<br>Material/Scale   | 2014<br>gezeichnet<br>drawn<br>05.06.<br>Költzner<br>Name<br>Költzner<br>Zeichnung Nr. / Drawing No.<br><b>T R1.188.3120.0 01K</b><br>Maße in mm/Dimensions are in mm  |
| Datei/ File: 030021_A01K_R1.188.3120.0.DCD  |  |
| Ersetzt für/ Replacement for:   |  |
| 03.02.15<br>geprüft<br>checked<br>03.02.15<br>Betz/Sheet<br>www.wieland<br>www.wieland-electric.com   | Type<br>Benennung/ Title<br>Maßbildzeichnung/dimension drawing<br>Standardgehäuse u. -deckel, Baubreite 45mm,<br>Schraubklemmen steckbar<br>standard housing and cover, overall with 45mm plug-in pcb terminal |