

## product data sheet

item no. R1.188.2160.0

device for monitoring of safety-related circuits  
SNV4074SL-A 30S DC 24V

Base unit, single-channel or two-channel control, automatic-/ manual reset with reset switch monitoring, 2 immediate switching current paths, 2 enabling current path off-delayed not retriggerable, 2 signalling contacts immediately, 2 signalling contacts off-delayed, 0 - 30s, DC 24 V, screw-terminals pluggable



|            |               |
|------------|---------------|
| item no.   | R1.188.2160.0 |
| EAN        | 4046521300249 |
| 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                                                                          |
| suitable 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 <sub>th</sub> , enabling paths  | 6 A                                                     |
| max. thermal current I <sub>th</sub> , signaling paths | 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  | 2                                                       |
| outputs, signalling function, delayed, with contact    | 2                                                       |
| outputs, safe, undelayed, with contact                 | 2                                                       |
| outputs, safe, delayed, with contact                   | 2                                                       |

#### 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

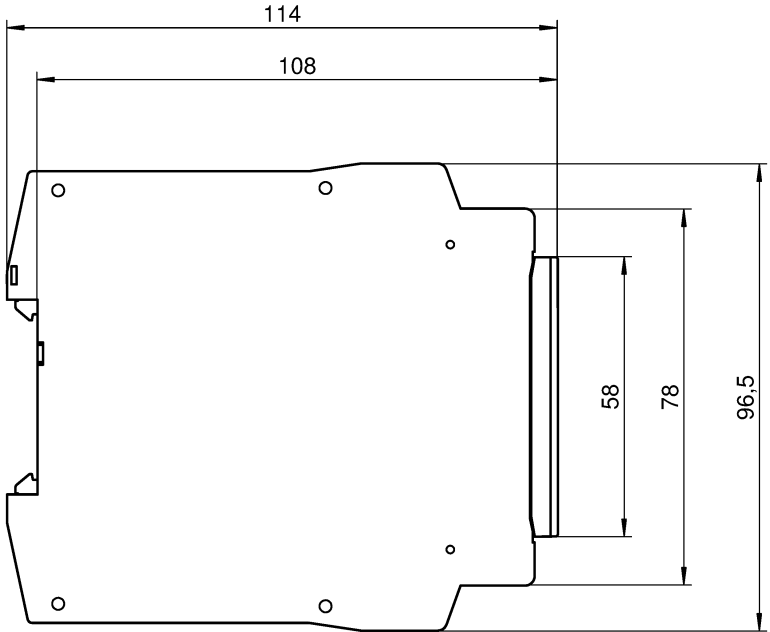
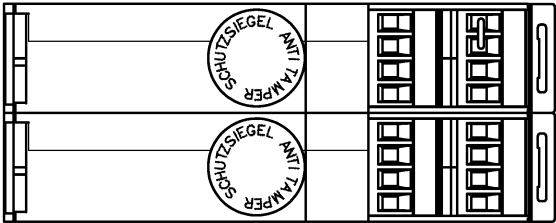
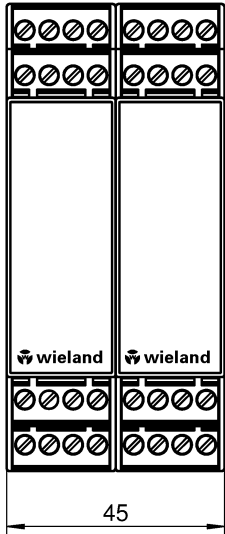
|                                                       |         |
|-------------------------------------------------------|---------|
| nominal voltage U <sub>N</sub>                        | DC 24 V |
| rated consumption DC                                  | 2.8 W   |
| electrical isolation supply 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 |

①

| 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        |



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

[www.wieland-electric.com](http://www.wieland-electric.com)  
[eshop.wieland-electric.com](http://eshop.wieland-electric.com)

ja/yes ☐ Stoffverbots- und Deklarationsliste nach WN 5020.010 ist einzuhalten.  
Conformity with Wieland document WN 5020.010 e (list of prohibited / declarable hazardous substances) to be declared!

|                                        |  |                                                                                           |  |                              |                     |                                                                                                                                                                                                        |  |
|----------------------------------------|--|-------------------------------------------------------------------------------------------|--|------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Freitoleranz nach<br>General tolerance |  | CAD-Zeichnung, keine manuellen Änderungen<br>CAD-Drawing, no manual modifications allowed |  | 1. Verwendung:<br>First Use: |                     | Blatt:<br>Sheet:                                                                                                                                                                                       |  |
|                                        |  | Werkstoff/ Material                                                                       |  | 2014<br>gezeichnet<br>drawn  | Tag/ Date<br>06.06. | Name<br>Kötzner                                                                                                                                                                                        |  |
|                                        |  | Maßstab/Scale                                                                             |  | geprüft<br>checked           |                     | Zeichnung Nr./ Drawing No.<br><b>T R1.188.3120.0 01K</b>                                                                                                                                               |  |
|                                        |  |                                                                                           |  | Normgepr.<br>Stand. check    |                     | Maße in mm/Dimensions are in mm                                                                                                                                                                        |  |
|                                        |  | Datei/ File: 036021_A01K_R1.188.3120.0.DCD                                                |  | Ersatz für/ Replacement for: |                     |                                                                                                                                                                                                        |  |
| ① 03.02.15                             |  | www.wieland<br>www.wieland-electric.com                                                   |  | Type                         |                     | 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 |  |
| Index Datum/ Blatt<br>Date/ Sheet      |  |                                                                                           |  |                              |                     |                                                                                                                                                                                                        |  |
| Änderung/ Revision                     |  |                                                                                           |  |                              |                     |                                                                                                                                                                                                        |  |