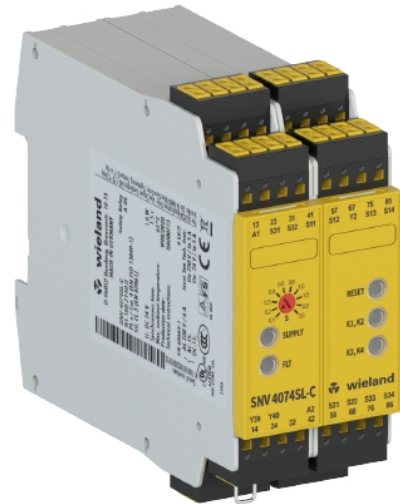


## Data sheet

Commercial Art.No.: R1.188.2200.0

device for monitoring of safety-related circuits SNV4074SL-C 300S DC 24V

Base unit, single-channel or two-channel control, automatic-/manual reset with reset switch monitoring, 2 immediately switching current paths, 2 enabling current path off-delayed not retriggerable, 2 signalling contacts immediately, 2 signalling contacts off-delayed, 0 - 300s, DC 24 V, push-in terminals pluggable



|                    |               |
|--------------------|---------------|
| Commercial Art.No. | R1.188.2200.0 |
| EAN                | 4046521300287 |
| 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 <sup>2</sup> - 1.5mm <sup>2</sup> |
| 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 | spring clamp connection |

### safety parameters

|                        |   |
|------------------------|---|
| category (ISO 13849-1) | 4 |
|------------------------|---|

|   |            |
|---|------------|
| PL (ISO 13849-1)                        | level e    |
| SIL <sub>CL</sub> (IEC 62061)           | 3          |
| PFD <sub>d</sub> (Low demand mode)      | 8.7 E-6    |
| PFH <sub>d</sub> (High demand mode)     | 2 E-9 1/h  |
| HFT                                     | 1          |
| SSF                                     | 99.7 %     |
| DC                                      | 99 %       |
| MTTF <sub>d</sub>                       | 85 a       |
| λS                                      | 4586 FIT   |
| λD                                      | 1346 FIT   |
| λDU                                     | 18.9 FIT   |
| λDD                                     | 1327.1 FIT |
| T <sub>M</sub>                          | 20 a       |
| proof test intervall (High demand mode) | 20 a       |

#### 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 - 300 s (+- 0.1 %, +- 15ms) |
| type of switch function of the inputs         | normally open contact         |
| evaluation inputs                             | 2-channel                     |

#### supply circuit

|   |         |
|---|---------|
| nominal voltage UN                                    | 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

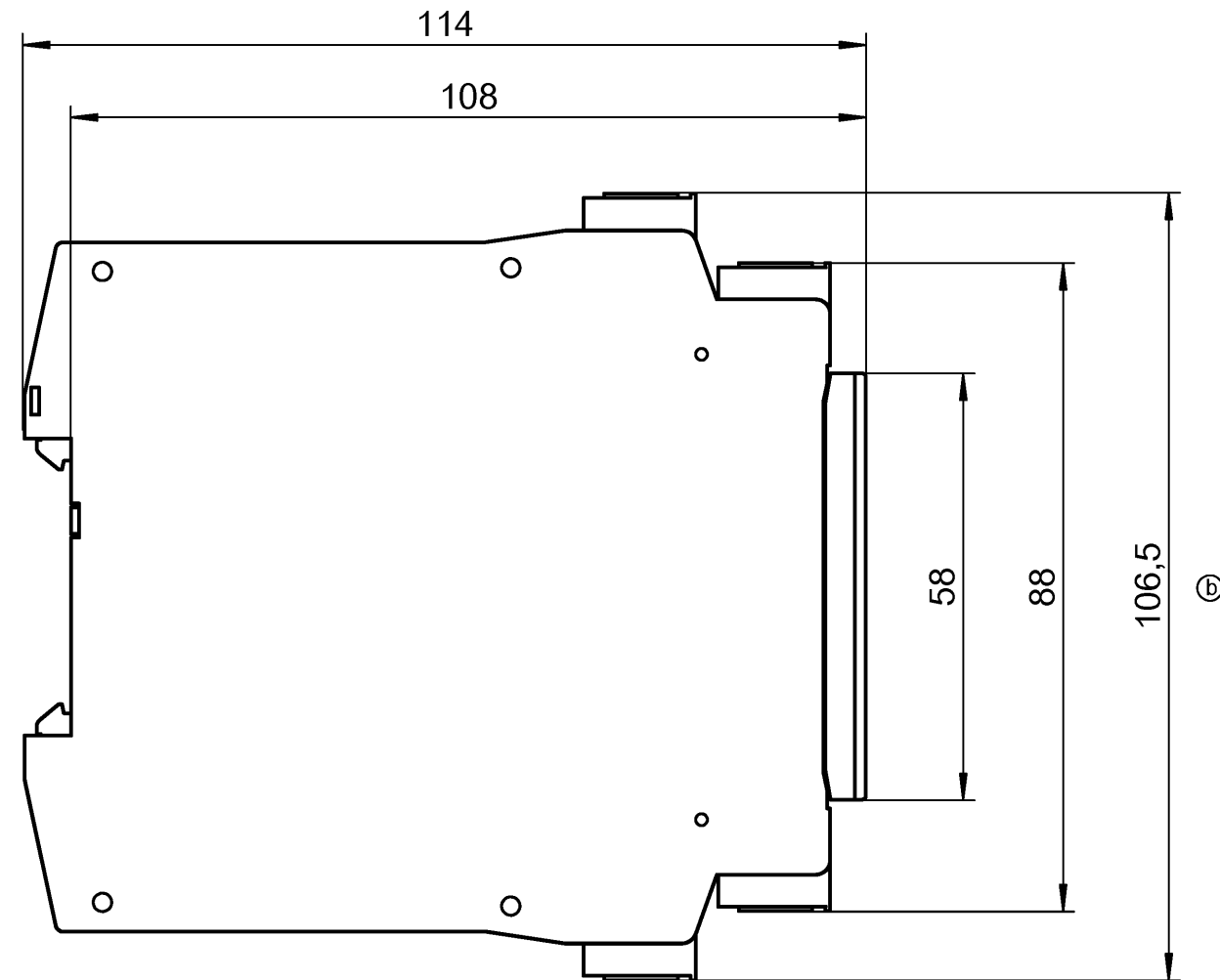
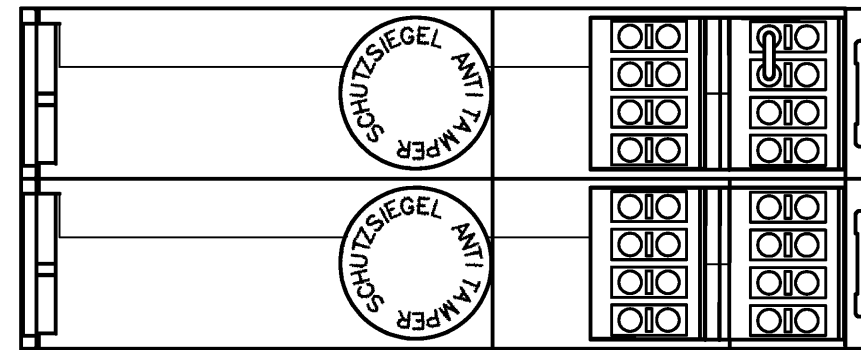
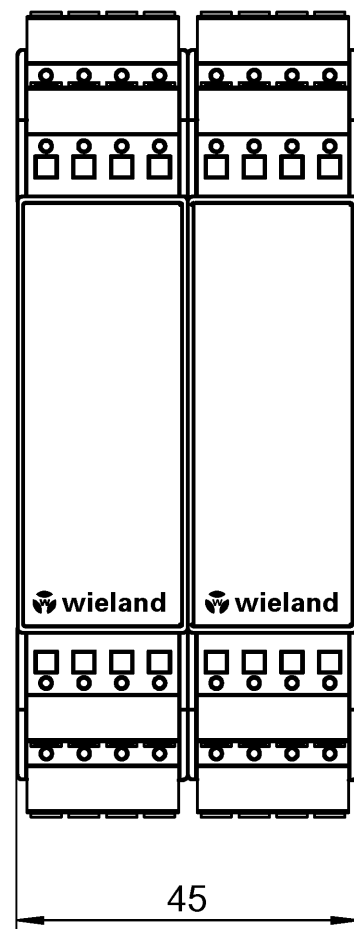
|            |          |
|------------|----------|
| ECLASS 11  |          |
| ECLASS 8.1 | 27371819 |
| ETIM 9.0   | EC001449 |
| ETIM 8.0   | EC001449 |
| ETIM 7.0   | EC001449 |
| ETIM 6.0   | EC001449 |
| ETIM 5.0   | EC001449 |
| ETIM 4.0   | EC001449 |
| ETIM 3.0   | EC001449 |

#### product compliance

|                              |                     |
|------------------------------|---------------------|
| ROHS conformity status       | compliant/exempted  |
| ROHS exceptions              | III-6(c); III-7(c)I |
| REACH-SVHC conformity status | Duty-To-Declare     |
| REACH-SVHC substances        | Lead                |
| REACH-SVHC CAS numbers       | 7439-92-1           |

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| Teile-Nr. / Part-No. |
|----------------------|
| R1.188.2050.0        |
| R1.188.2080.0        |
| R1.188.2110.0        |
| R1.188.2140.0        |
| R1.188.2170.0        |
| R1.188.2200.0        |
| R1.188.2230.0        |
| R1.188.2260.0        |
| R1.188.2290.0        |
| R1.188.2320.0        |
| R1.188.2350.0        |
| R1.188.2380.0        |
| R1.188.2480.0        |
| R1.188.2510.0        |
| R1.188.2540.0        |
| R1.188.2570.0        |
| R1.188.2600.0        |
| R1.188.2630.0        |
| R1.188.2660.0        |
| R1.188.2690.0        |
| R1.188.2720.0        |
| R1.188.2750.0        |
| R1.188.2780.0        |
| R1.188.2810.0        |
| R1.188.3540.0        |
| R1.188.3550.0        |



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>Koetznner   |  |
|  |  | Maßstab/Scale   |  | geprüft<br>checked           |                     | Zeichnung Nr./ Drawing No.<br><b>T R1.188.3540.0 01K</b>  |  |
|  |  | Datei/ File: 036021_B01K_R1.188.3540.0.DCD  |  | Ersatz für/ Replacement for: |                     | Maße in mm/Dimensions are in mm   |  |
| Ⓑ 02.09.16                             |  |   |  | Type                         |                     | Benennung/ Title  |  |
| Ⓐ 03.02.15                             |  |   |  | www.wieland-electric.com     |                     | Maßbildzeichnung/dimension drawing<br>Standardgehäuse u. -deckel, Baubreite 45mm,<br>Federkraftklemme steckbar,<br>standard housing and cover, overall with 45mm<br>plug-in spring-clamp terminal |  |
| Index<br>Datum/ Blatt<br>Date/ Sheet   |  |   |  |                              |                     |   |  |
| Änderung/ Revision                     |  |   |  |                              |                     |   |  |

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