

## Data sheet

Commercial Art.No.: R1.188.3650.0

Stand still monitor SNS 4074K-C DC 24V 99 HZ

Zero-speed monitor (Frequency range 0.5 - 99 Hz) with bypass-function, automatic-/ manual reset with reset-button monitoring, 4 safe semiconductor outputs, DC 24 V, push-in terminals pluggable

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# DIGITALIZATION IN PROGRESS

|                    |               |
|--------------------|---------------|
| Commercial Art.No. | R1.188.3650.0 |
| EAN                | 4049088109102 |
| Order Unit         | 1             |

Certificates / Approvals



## Technical data

### General

|                                                         |                                              |
|---------------------------------------------------------|----------------------------------------------|
| Function display                                        | 12 LED, green/red                            |
| 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                                        |
| Permissible torque min.                                 | 0.5 Nm                                       |
| Permissible torque max.                                 | 0.6 Nm                                       |
| Tightening moment                                       | 0.6 Nm                                       |
| Wire range cage clamp terminals                         | 2 x 0,25mm <sup>2</sup> - 1,5mm <sup>2</sup> |
| Weight                                                  | 0.16 kg                                      |
| Standards                                               | EN ISO 13849-1EN 62061; EN 62061             |
| Suited for safety functions                             | Yes                                          |
| With muting function                                    | Yes                                          |
| 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 | Spring clamp connection |

### Output circuit

|                 |                                 |
|-----------------|---------------------------------|
| Enabling paths  | solid state (plus), safe output |
| Signaling paths | solid state (plus), not safe    |

|                                                       |                     |
|-------------------------------------------------------|---------------------|
| Rated switching voltage, enabling paths DC            | 30 V                |
| Max. thermal current $I_{th}$ , enabling paths        | 2 A                 |
| Max. total current $I^2$ of all current path          | 4 A <sup>2</sup>    |
| Short-circuit protection (NO), max. fuse insert       | short-circuit proof |
| Outputs, signalling function, undelayed, with contact | 2                   |
| Outputs, safe, undelayed, with contact                | 4                   |

#### Control circuit

|                                                    |           |
|----------------------------------------------------|-----------|
| Nominal output voltage DC                          | 24 V      |
| Input current (safety circuit / reset circuit)     | 3 mA      |
| max. peak current (safety circuit / reset circuit) | 3.8 mA    |
| Min. switch-on time                                | 100 ms    |
| Recovery time $t_W$                                | > 100 ms  |
| max. resistivity, per channel                      | 100 m     |
| Evaluation inputs                                  | 2-channel |

#### Supply circuit

|                                                       |         |
|-------------------------------------------------------|---------|
| Nominal voltage $U_N$                                 | DC 24 V |
| Rated consumption DC                                  | 1.8 W   |
| Electrical isolation supply circuit - control circuit | No      |
| Min. rated DC voltage for controls                    | 20.4 V  |
| Max. rated DC voltage for controls                    | 30 V    |

#### Dimensions

|        |          |
|--------|----------|
| Depth  | 114 mm   |
| Width  | 22.5 mm  |
| Height | 106.5 mm |

#### Classification

|            |          |
|------------|----------|
| ECLASS 8.1 | 27371811 |
| ETIM 7.0   | EC001448 |
| ETIM 6.0   | EC001448 |
| ETIM 5.0   | EC001448 |

#### Application

|                                               |              |
|-----------------------------------------------|--------------|
| Model                                         | Basic device |
| Suitable for monitoring of magnetic switches  | No           |
| Suitable for monitoring of proximity switches | Yes          |

#### 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)  | 2.2 E-5   |
| PFH <sub>d</sub> (High demand mode) | 5 E-9 1/h |
| HFT                                 | 1         |
| DC                                  | 96 %      |
| MTTF <sub>d</sub>                   | 300 a     |

|                                         |      |
|-----------------------------------------|------|
| $T_M$                                   | 20 a |
| Proof test intervall (High demand mode) | 20 a |

| Teile Nr. / Part No. |
|----------------------|
| R1.188.1940.0        |
| R1.188.1950.0        |
| R1.188.1960.0        |
| R1.188.1970.0        |
| R1.188.1980.0        |
| R1.188.1990.0        |
| R1.188.2000.0        |
| R1.188.2010.0        |
| R1.188.2020.0        |
| R1.188.2390.0        |
| R1.188.2410.0        |
| R1.188.2420.0        |
| R1.188.2430.0        |
| R1.188.2440.0        |
| R1.188.2450.0        |
| R1.188.3400.0        |
| R1.188.3410.0        |
| R1.188.3420.0        |
| R1.188.3430.0        |
| R1.188.3490.0        |
| R1.188.3600.0        |

| Teile Nr. / Part No. |
|----------------------|
| R1.188.3610.0        |
| R1.188.3630.0        |
| R1.188.3650.0        |
| R1.188.3670.0        |
| R1.188.3730.0        |
| R1.188.3820.0        |
| R1.188.3850.0        |
| R1.188.3860.0        |
| R1.188.3900.0        |
| R1.188.3920.0        |
| R1.188.3940.0        |
| R1.188.4000.0        |
| R1.188.4010.0        |
| R1.188.4030.0        |
| R1.188.4130.0        |
| R1.188.4140.0        |
| R1.188.4150.0        |
| R1.188.4160.0        |
| R1.188.4210.0        |
| R1.188.5000.0        |

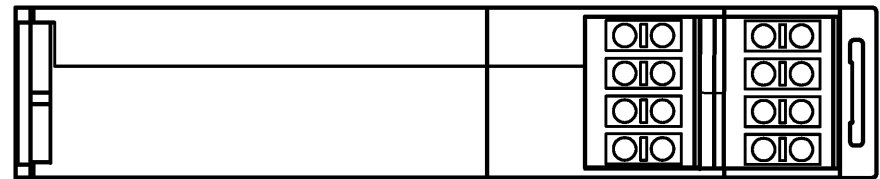
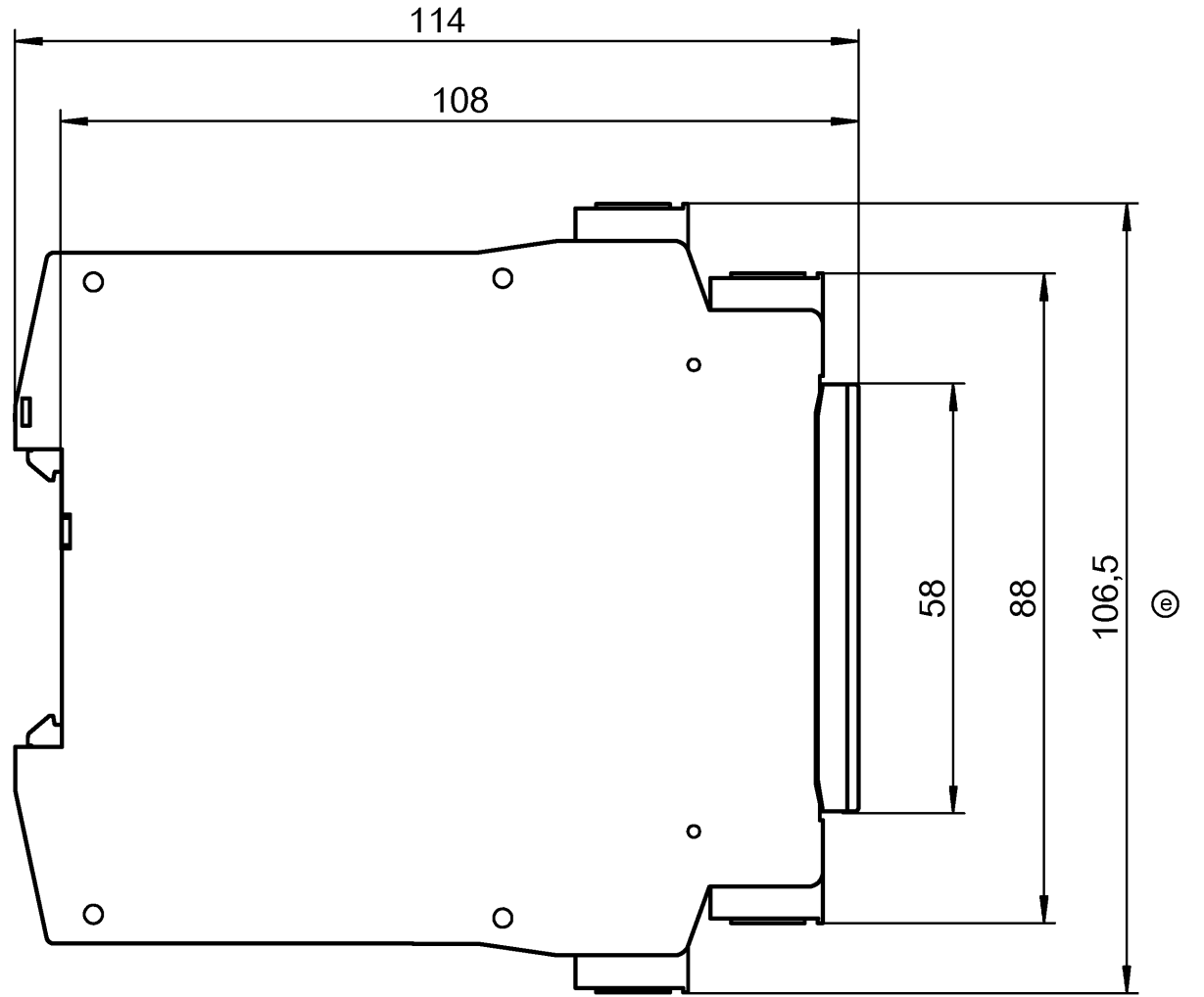
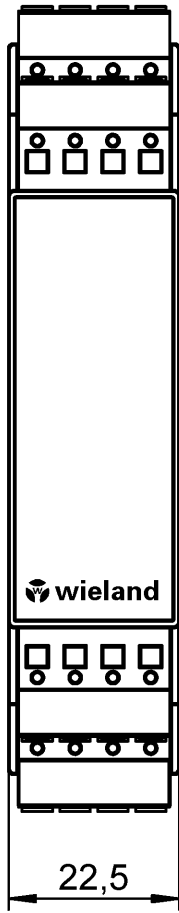
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Weitere Angaben siehe KATALOG oder eKatalog.  
Additional data see CATALOG or eCatalog.

www.wieland-electric.com  
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                                                                                                                                                                                                                         | Tag/Date         | Name     | Zeichnung Nr./Drawing No.<br><br><b>T R1.188.1940.0 01K</b> |
| Ⓕ                                      | 09.08.19                  |                                                                                                                                         | Maßstab/Scale      |                              | gezeichnet<br>drawn                                                                                                                                                                                                          | 06.06.           | Koetzner |                                                             |
| Ⓔ                                      | 26.08.16                  |                                                                                                                                         |                    |                              | geprüft<br>checked                                                                                                                                                                                                           |                  |          |                                                             |
| Ⓙ                                      | 22.04.16                  |                                                                                                                                         |                    |                              | Normgepr.<br>Stand. check                                                                                                                                                                                                    |                  |          | Maße in mm/Dimensions are in mm                             |
| Ⓒ                                      | 03.07.15                  | Datei/File: 036141_F01K.DCD                                                                                                             |                    | Ersatz für/Replacement for:  |                                                                                                                                                                                                                              |                  |          |                                                             |
| Ⓑ                                      | 30.06.15                  |  <b>wieland</b><br><b>www.wieland-electric.com</b> |                    | Type                         | Benennung/Title<br><br>Maßbildzeichnung/Dimension drawing<br>Standardgehäuse u. -deckel, Baubreite 22,5mm,<br>Federkraftklemme steckbar<br>Standard housing and cover, overall width 22,5mm plug-in<br>spring-clamp terminal |                  |          |                                                             |
| Ⓐ                                      | 03.02.15                  |                                                                                                                                         |                    |                              |                                                                                                                                                                                                                              |                  |          |                                                             |
| Index                                  | Datum/Blatt<br>Date/Sheet |                                                                                                                                         |                    |                              |                                                                                                                                                                                                                              |                  |          |                                                             |
| Änderung/Revision                      |                           |                                                                                                                                         |                    |                              |                                                                                                                                                                                                                              |                  |          |                                                             |

