







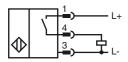
Model Number

NRB4-12GS40-E2-V1

Features

- 4 mm flush
- Reduction factor = 1
- Magnetic field resistant
- Stainless steel housing

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

| 1 | BN | (brown) |
|---|----|---------|
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |

Accessories

Mounting flange, 12 mm

V1-G

Date of issue: 2012-05-04 208560_eng.xml

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Release date:

4-pin, M12 female field-attachable connector

4-pin, M12 female field-attachable connector

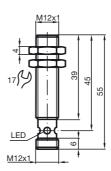
V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

| deneral specifications | | | | | |
|------------------------------------|----------------|------------|-----|--|--|
| Switching element function | | PNP | NO | | |
| Rated operating distance | s _n | 4 mm | | | |
| Installation | | flush | | | |
| Output polarity | | switched h | igh | | |
| Assured operating distance | sa | 0 3.24 n | nm | | |
| Reduction factor r _{Al} | | 1 | | | |
| Reduction factor r _{Cu} | | 1 | | | |
| Reduction factor r ₃₀₄ | | 1 | | | |
| Reduction factor r _{St37} | | 1 | | | |
| | | | | | |

| | Reduction factor r _{St37} | | 1 |
|---|------------------------------------|------------------|-------------------------------|
| N | ominal ratings | | |
| | Operating voltage | UB | 10 30 V |
| | Switching frequency | f | 0 2000 Hz |
| | Hysteresis | Н | typ. 5 % |
| | Reverse polarity protected | | reverse polarity protected |
| | Short-circuit protection | | pulsing |
| | Voltage drop | U _d | ≤ 3 V |
| | Rated insulation voltage | U _{BIS} | 60 V |
| | Operating current | IL | 0 200 mA |
| | Off-state current | l _r | 0 0.5 mA typ. 0.1 μA at 25 °C |
| | No-load supply current | I ₀ | ≤ 13 mA |
| | Constant magnetic field | В | 200 mT |
| | Alternating magnetic field | В | 200 mT |
| | ndication of the switching state | | Multihole-LED, yellow |
| | | | |

Functional safety related parameters

| MTTF _d | 1477 8 |
|--------------------------------|--------|
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |
| Ambient conditions | |

| Ambient temperature | -25 /U ⁻ U (-13 158 ⁻ F) |
|---------------------------|--|
| Storage temperature | -40 85 °C (-40 185 °F) |
| lookanical enocifications | |

| • | |
|-------------------|-----------------------------------|
| Connection type | Device connector M12 x 1, 4-pii |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | Crastin (PBTB) |
| Protection degree | IP67 |
| Macc | 22 a |

Scope of delivery Compliance with standards and directives

Decian impulse voltage withstand LL

| Standard conformity | |
|---------------------|--------------------|
| Standards | EN 60947-5-2:2007 |
| | IEC 00047 E 0.0007 |

General information

| Approvals and certificates | | | |
|----------------------------|----|------|--|
| Protection class | | II | |
| Rated insulation voltage | H. | 60 V | |

| Design-impulse-voltage withstand O _{imp} | 000 V |
|---|-------------------------------|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed General Purpose |

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Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com

| CCC approval | Products with a maximum operating voltage of ≤36 V do not bear a |
|--------------|--|
| | CCC marking because they do not require approval. |

2 self locking nuts in scope of delivery