



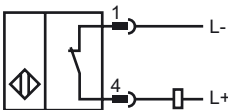
Model Number

NCN8-12GM40-Z7-V1

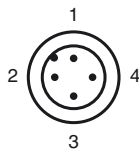
Features

- 8 mm non-flush
- 2-wire DC
- Increased operating distance

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

V1-W

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

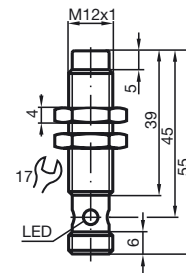
BF 12

Mounting flange, 12 mm

V1-G

4-pin, M12 female field-attachable connector

Dimensions



Technical Data

General specifications

| | | | |
|----------------------------|-------|---------------|----|
| Switching element function | | DC | NC |
| Rated operating distance | s_n | 8 mm | |
| Installation | | non-flush | |
| Output polarity | | DC | |
| Assured operating distance | s_a | 0 ... 6.48 mm | |
| Reduction factor r_{Al} | | 0.49 | |
| Reduction factor r_{Cu} | | 0.49 | |
| Reduction factor r_{304} | | 0.74 | |

Nominal ratings

| | | | |
|-----------------------------------|-------|----------------------------|--|
| Operating voltage | U_B | 3.5 ... 30 V | |
| Switching frequency | f | 0 ... 750 Hz | |
| Hysteresis | H | typ. 3 % | |
| Reverse polarity protection | | conducting | |
| Short-circuit protection | | pulsing | |
| Voltage drop | U_d | ≤ 3.5 V | |
| Temperature drift | | ± 15% | |
| Operating current | I_L | 2 ... 100 mA | |
| Off-state current | I_r | 0.4 ... 0.6 mA typ. 0.5 mA | |
| Indication of the switching state | | LED, yellow | |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |

Mechanical specifications

| | |
|-------------------|---------------------------------|
| Connection type | Device connector M12 x 1, 4-pin |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Protection degree | IP67 |

Compliance with standards and directives

| | |
|---------------------|--|
| Standard conformity | |
| Standards | EN 60947-5-2:2007 IEC 60947-5-2:2007 Non-standard connector assignment |

Approvals and certificates

| | |
|--------------|--|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |
| CCC approval | Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. |