



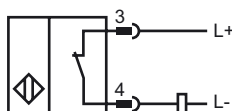
Model Number

NCN2-8GM50-Z1-V3

Features

- 2 mm not embeddable
- 2-wire DC

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

BF 8

Mounting flange, 8 mm

V3-GM

Female connector, M8, 3-pin, field attachable

V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

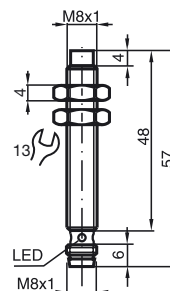
V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications

| | | |
|----------------------------|----------------|---------------|
| Switching element function | DC | NC |
| Rated operating distance | s_n | 2 mm |
| Installation | not embeddable | |
| Output polarity | DC | |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Reduction factor r_{Al} | 0.4 | |
| Reduction factor r_{Cu} | 0.39 | |
| Reduction factor r_{303} | 0.75 | |

Nominal ratings

| | | |
|-----------------------------------|-------------|-------------------|
| Operating voltage | U_B | 5 ... 60 V |
| Switching frequency | f | 0 ... 1200 Hz |
| Hysteresis | H | 1 ... 10 typ. 5 % |
| Reverse polarity protected | tolerant | |
| Short-circuit protection | pulsing | |
| Voltage drop | U_d | ≤ 5 V |
| Operating current | I_L | 2 ... 100 mA |
| Lowest operating current | I_m | 2 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. |
| Indication of the switching state | LED, yellow | |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--------------------------------|

Mechanical specifications

| | |
|-------------------|-----------------------------------|
| Connection type | Device connector M8 x 1, 3-pin |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | PBT |
| Protection degree | IP67 |

Compliance with standards and directives

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

Approvals and certificates

| | |
|--------------|---|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |
| CCC approval | Certified by China Compulsory Certification (CCC) |