



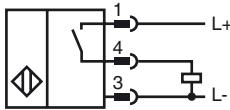
Model Number

NJ8-18GM50-E2-V1

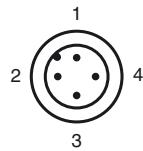
Features

- 8 mm not embeddable

Connection



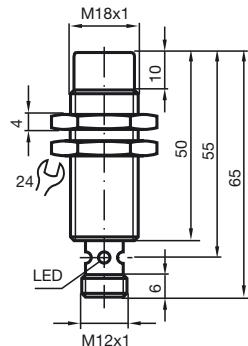
Pinout



Wire colors in accordance with EN 60947-5-2

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

Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|----------------|
| Switching element function | PNP | NO |
| Rated operating distance | s_n | 8 mm |
| Installation | | not embeddable |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 6.48 mm |
| Reduction factor f_{AI} | | 0.42 |
| Reduction factor f_{CU} | | 0.4 |
| Reduction factor f_{303} | | 0.72 |

Nominal ratings

| | | |
|-----------------------------------|-------|----------------------------|
| Installation conditions | | |
| A | | 10 mm |
| B | | 54 mm |
| C | | 24 mm |
| Operating voltage | U_B | 10 ... 60 V |
| Switching frequency | f | 0 ... 1000 Hz |
| Hysteresis | H | 1 ... 15 typ. 7.5 % |
| Reverse polarity protected | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0 ... 200 mA |
| Lowest operating current | I_m | 0 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. 0.01 mA |
| No-load supply current | I_0 | ≤ 9 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 | 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) |

Accessories

BF 18

Mounting flange, 18 mm

V1-G

4-pin, M12 female field-attachable connector

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