



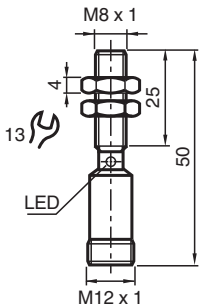
Inductive sensor

NMB3-8GM50-E2-C-V1

- 3 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune



Dimensions



Technical Data

General specifications

| | | |
|-----------------------------|-------|--------------------|
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | s_n | 3 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 2.43 mm |
| Reduction factor r_{Al} | | 0.3 |
| Reduction factor r_{Cu} | | 0.2 |
| Reduction factor r_{304} | | 0.7 |
| Reduction factor r_{St37} | | 1 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|--------------------------------|-------|--|
| Operating voltage | U_B | 10 ... 30 V DC |
| Switching frequency | f | 0 ... 5 Hz |
| Hysteresis | H | 5 ... 15 typ. 10 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 2 V |
| Operating current | I_L | 0 ... 100 mA |
| Off-state current | I_r | 0 ... 10 μ A typ. 0.1 μ A at 25 °C |
| No-load supply current | I_o | ≤ 10 mA |
| Switching state indicator | | LED, red |
| Mag. Field strength, AC fields | | 250 mT |

Release date: 2025-06-10 Date of issue: 2025-06-10 Filename: 912295_eng.pdf

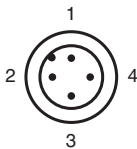
Technical Data

| | |
|---|---|
| Mag. Field strength, DC fields | 250 mT |
| Compliance with standards and directives | |
| Standard conformity | |
| Standards | EN IEC 60947-5-2 |
| Approvals and certificates | |
| UL approval | cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 30 V DC Output Switching Current: 100 mA |
| CCC approval | CCC approval / marking not required for products rated ≤ 36 V |
| Ambient conditions | |
| Ambient temperature | -25 ... 75 °C (-13 ... 167 °F) |
| Mechanical specifications | |
| Connection type | Connector plug |
| Housing material | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Sensing face | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Degree of protection | IP67 |
| Connector | |
| Threading | M12 x 1 |
| Number of pins | 4 |
| Dimensions | |
| Length | 50 mm |
| Diameter | 8 mm |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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