



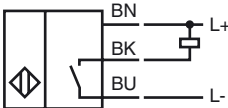
Model Number

NMB2-12GM55-E0-FE

Features

- Stainless steel sensing face
- Sensing range 2 mm
- 3-wire DC
- Ferrous targets

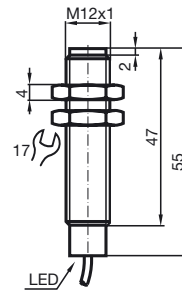
Connection



Accessories

AB-12
Mounting aid

Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-----------------|---------------|
| Switching element function | NPN | NO |
| Rated operating distance | s_n | 2 mm |
| Installation | flush | |
| Output polarity | DC | |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Actuating element | Ferrous targets | |
| Reduction factor r_{Al} | 0 | |
| Reduction factor r_{Cu} | 0 | |
| Reduction factor r_{304} | 0.6 - 0.8 | |
| Reduction factor r_{316Ti} | 0.1 | |
| Reduction factor r_{Si37} | 1 | |
| Reduction factor r_{Brass} | 0 | |

Nominal ratings

| | | |
|-----------------------------|----------------------------|-------------------|
| Operating voltage | U_B | 10 ... 30 V DC |
| Switching frequency | f | 100 Hz |
| Hysteresis | H | 3 ... 15 typ. 5 % |
| Reverse polarity protection | reverse polarity protected | |
| Short-circuit protection | pulsing | |
| Voltage drop | U_d | ≤ 2 V DC |
| Operating current | I_L | ≤ 200 mA |
| Current consumption | < 14 mA | |
| Off-state current | I_r | ≤ 10 μ A |

Functional safety related parameters

| | |
|--------------------------|-------|
| MTTF _d | 990 a |
| Mission Time (T_M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Indicators/operating means

| | |
|-------------------|--|
| Operating display | Dual LED Green: power Yellow: output |
|-------------------|--|

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -40 ... 70 °C (-40 ... 158 °F) |
|---------------------|--------------------------------|

Mechanical specifications

| | |
|--------------------|-----------------------------------|
| Connection type | 2 m PUR cable |
| Core cross-section | 0.34 mm ² |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | Stainless steel 1.4305 / AISI 303 |
| Protection degree | IP69K |

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