



Model Number

NMB5-12GM55-E0

Features

- 5 mm flush
- Stainless steel sensing face
- Increased operating distance

Accessories

AB-12

Mounting aid

Technical Data

General specifications

| | | |
|-----------------------------|-------|---|
| Switching function | | Normally open (NO) |
| Output type | | NPN |
| Rated operating distance | s_n | 5 mm |
| Installation | | flush (Requirements: see drawing below) |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 4.05 mm |
| Actuating element | | Ferrous and nonferrous targets |
| Reduction factor r_{Al} | | 0.3 |
| Reduction factor r_{Cu} | | 0.2 |
| Reduction factor r_{304} | | 0.85 |
| Reduction factor r_{St37} | | 1 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|-----------------------------|-------|----------------------------|
| Operating voltage | U_B | 10 ... 30 V DC |
| Switching frequency | f | 0 ... 360 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 |
| Off-state current | I_r | ≤ 10 μ A |
| No-load supply current | I_o | ≤ 10 mA |
| Operating voltage indicator | | LED, green |
| Switching state indicator | | LED, yellow |

Functional safety related parameters

| | |
|--------------------------|-------|
| MTTF _d | 900 a |
| Mission Time (T_M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Ambient conditions

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

Mechanical specifications

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

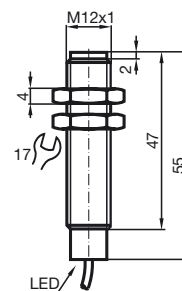
Compliance with standards and directives

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

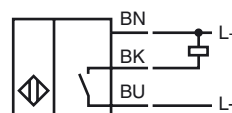
Approvals and certificates

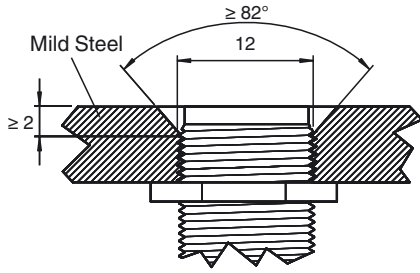
| | |
|--------------|--|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |
| CCC approval | CCC approval / marking not required for products rated ≤ 36 V |

Dimensions



Electrical Connection





Sensor face is flush with mounting surface.