

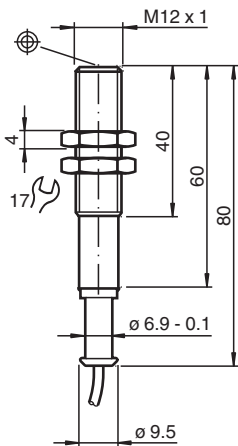
Inductive sensor

NJ2-12GM-N-Y08766

■ 2 mm flush



Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|----------------------|
| Switching function | | Normally closed (NC) |
| Output type | | NAMUR |
| Rated operating distance | s_n | 2 mm |
| Installation | | flush |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Reduction factor r_{AI} | | 0.4 |
| Reduction factor r_{Cu} | | 0.3 |
| Reduction factor r_{304} | | 0.85 |
| Output type | | 2-wire |

Nominal ratings

| | | |
|------------------------------|-------|--------------------------------------|
| Nominal voltage | U_o | 8.2 V (R_i approx. 1 k Ω) |
| Switching frequency | f | 0 ... 2000 Hz |
| Current consumption | | |
| Measuring plate not detected | | min. 3 mA |
| Measuring plate detected | | ≤ 1 mA |

Functional safety related parameters

| | | |
|--------------------------|--|--------|
| MTTF _d | | 5887 a |
| Mission Time (T_M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |

Compliance with standards and directives

| | | |
|---------------------|--|---|
| Standard conformity | | |
| NAMUR | | EN 60947-5-6:2000 IEC 60947-5-6:1999 |

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Technical Data

| | | |
|-----------------------------------|------------------|-----------------------------------|
| Standards | EN IEC 60947-5-2 | |
| Approvals and certificates | | |
| IECEX approval | | |
| Equipment protection level Gb | | IECEX PTB 11.0037X |
| Equipment protection level Da | | IECEX PTB 11.0037X |
| Equipment protection level Mb | | IECEX PTB 11.0037X |
| ATEX approval | | |
| Equipment protection level Gb | | PTB 00 ATEX 2048 X |
| Equipment protection level Da | | PTB 00 ATEX 2048 X |
| UL approval | | cULus Listed, General Purpose |
| CML approval | | on request |
| ANZEx | | 18.3018X |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 100 °C (-13 ... 212 °F) |
| Mechanical specifications | | |
| Connection type | | cable |
| Housing material | | Stainless steel 1.4305 / AISI 303 |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Cable | | |
| Cable diameter | | 4.8 mm ± 0.2 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PVC |
| Core cross section | | 0.34 mm ² |
| Length | L | 5 m |
| Dimensions | | |
| Length | | 80 mm |
| Diameter | | 12 mm |
| General information | | |
| Use in the hazardous area | | see instruction manuals |

Connection

