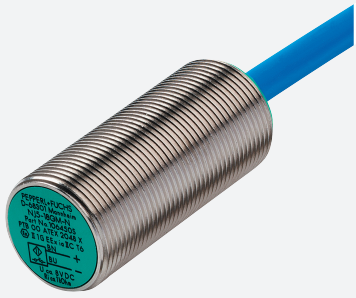


Inductive sensor

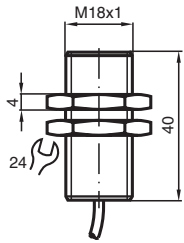
NJ5-18GM-N



- 5 mm flush
- Usable up to SIL 2 acc. to IEC 61508
- NAMUR output
- Stainless steel housing



Dimensions



Technical Data

| General specifications | | | |
|------------------------------|-------|--|--------------------------------------|
| Switching function | | | Normally closed (NC) |
| Output type | | | NAMUR |
| Rated operating distance | s_n | | 5 mm |
| Installation | | | flush |
| Assured operating distance | s_a | | 0 ... 4.05 mm |
| Reduction factor r_{AI} | | | 0.21 |
| Reduction factor r_{Cu} | | | 0.18 |
| Reduction factor r_{304} | | | 0.63 |
| Output type | | | 2-wire |
| Nominal ratings | | | |
| Nominal voltage | U_o | | 8.2 V (R_i approx. 1 k Ω) |
| Operating voltage | U_B | | 5 ... 25 V |
| Switching frequency | f | | 0 ... 500 Hz |
| Hysteresis | H | | 3 % |
| Current consumption | | | |
| Measuring plate not detected | | | ≥ 3 mA at nominal voltage |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PF PEPPERL+FUCHS

Technical Data

| | | |
|---|--|-----|
| Measuring plate detected | ≤ 1 mA at nominal voltage | |
| Functional safety related parameters | | |
| Safety Integrity Level (SIL) | SIL 2 | |
| MTTF _d | 4566 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 | |
| Standards | EN IEC 60947-5-2 | |
| Approvals and certificates | | |
| IECEX approval | | |
| Equipment protection level Ga | IECEX PTB 11.0037X | |
| 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 Ga | PTB 00 ATEX 2048 X | |
| Equipment protection level Gb | PTB 00 ATEX 2048 X | |
| Equipment protection level Da | PTB 00 ATEX 2048 X | |
| UL approval | | |
| | cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC | |
| Ordinary Location | E87056 | |
| Hazardous Location | E501628 | |
| Control drawing | 116-0452 | |
| CCC approval | | |
| Hazardous Location | 2020322315002255 | |
| CML approval | on request | |
| ANZEx | 18.3018X | |
| KCC approval | | |
| Hazardous Location | 09-AV4BO-0227 | |
| Marine approval | DNVGL TAA00001A5 | |
| 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 | IP66 / IP67 | |
| Cable | | |
| Cable diameter | 6 mm ± 0.2 mm | |
| Bending radius | > 10 x cable diameter | |
| Material | PVC | |
| Core cross section | 0.75 mm ² | |
| Length | L | 2 m |
| Dimensions | | |
| Length | 40 mm | |
| Diameter | 18 mm | |
| General information | | |
| Scope of delivery | 2 self locking nuts in scope of delivery | |
| Use in the hazardous area | see instruction manuals | |

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PEPPERL+FUCHS

Connection Assignment



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