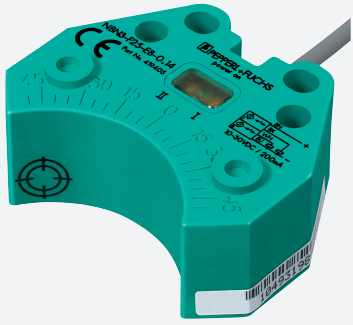


Inductive sensor

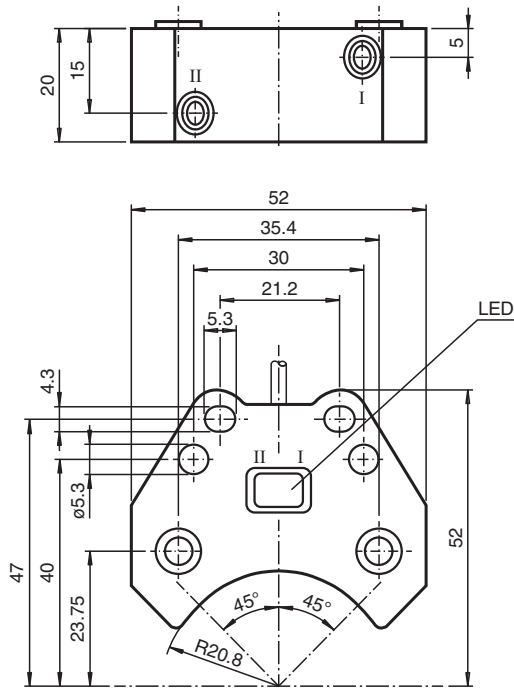
NCN3-F25-N4-0,14



- For installation in housing
- Direct mounting on standard actuators
- ATEX & IECEx certifications



Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|--------------------------|
| Switching function | | 2 x normally closed (NC) |
| Output type | | NAMUR |
| Rated operating distance | s_n | 3 mm |
| Installation | | flush mountable |
| Assured operating distance | s_a | 0 ... 2.43 mm |
| Actual operating distance | s_r | 2.7 ... 3.3 mm typ. |
| Reduction factor r_{Al} | | 0.52 |
| Reduction factor r_{Cu} | | 0.43 |
| Reduction factor r_{304} | | 0.86 |

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|---|
| Reduction factor r_{S137} | | 1 |
| Reduction factor r_{Brass} | | 0.54 |
| Output type | | 2-wire |
| Nominal ratings | | |
| Nominal voltage | U_o | 8.2 V (R_i approx. 1 k Ω) |
| Switching frequency | f | 0 ... 1500 Hz |
| Hysteresis | H | typ. 5 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | yes |
| Suitable for 2:1 technology | | yes , Reverse polarity protection diode not required |
| Current consumption | | |
| Measuring plate not detected | | ≥ 3 mA |
| Measuring plate detected | | ≤ 1 mA |
| Time delay before availability | t_v | ≤ 1 ms |
| Switching state indicator | | LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 1010 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 |
| Electromagnetic compatibility | | NE 21:2007 |
| Standards | | EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 |
| Approvals and certificates | | |
| IECEX approval | | |
| Equipment protection level Ga | | IECEX TUN 17.0021X |
| Equipment protection level Gb | | IECEX TUN 17.0021X |
| Equipment protection level Da | | IECEX TUN 17.0021X |
| Equipment protection level Mb | | IECEX TUN 17.0021X |
| ATEX approval | | |
| Equipment protection level Ga | | TÜV 99 ATEX 1479 X |
| Equipment protection level Gb | | TÜV 99 ATEX 1479 X |
| Equipment protection level Gc (ic) | | PF13CERT2895 X |
| Equipment protection level Da | | TÜV 99 ATEX 1479 X |
| FM approval | | |
| Control drawing | | 116-0165 |
| UL approval | | |
| Ordinary Location | | E87056 |
| Hazardous Location | | E501628 |
| Control drawing | | 116-0456 |
| CSA approval | | |
| cCSAus Listed, General Purpose | | |
| CCC approval | | |
| Hazardous Location | | 2020322315002262 |
| NEPSI approval | | |
| NEPSI certificate | | GYJ19.1410X |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 100 °C (-13 ... 212 °F) |
| Storage temperature | | -40 ... 100 °C (-40 ... 212 °F) |
| Mechanical specifications | | |

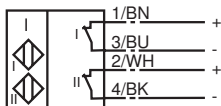
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Technical Data






| | |
|-------------------------------------|--------------------------|
| Connection type | cable PVC , 180 mm |
| Core cross-section | 4 x 0.14 mm ² |
| Housing material | PBT |
| Sensing face | PBT |
| Degree of protection | IP67 |
| Cable | |
| Cable diameter | 3 mm ± 0.3 mm |
| Bending radius | > 10 x cable diameter |
| Mass | 44 g |
| Tightening torque, fastening screws | M5 x 25 : 2.7 Nm |
| Note | Installation in housing |
| General information | |
| Use in the hazardous area | see instruction manuals |

Connection

N4



Accessories

| | | |
|---|----------------|--------------------------|
|  | BT32 | Activator for F25 series |
|  | BT32XS | Activator for F25 series |
|  | BT32XAS | Activator for F25 series |
|  | BT33 | Activator for F25 series |
|  | BT34 | Activator for F25 series |

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