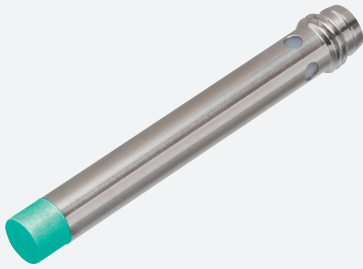


Inductive sensor

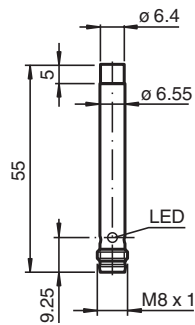
NEN6-6,5M45-E0-V3



- 3 mm non-flush
- Increased operating distance
- Extended temperature range
-40 ... +85 °C



Dimensions



Technical Data

| General specifications | | |
|------------------------------|-------|---|
| Switching function | | Normally open (NO) |
| Output type | | NPN |
| Rated operating distance | s_n | 6 mm |
| Installation | | non-flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 4.86 mm |
| Actuating element | | mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 18 mm x 18 mm x 1 mm |
| Reduction factor r_{Al} | | 0.55 |
| Reduction factor r_{Cu} | | 0.5 |
| Reduction factor r_{304} | | 0.75 |
| Reduction factor r_{Brass} | | 0.55 |
| Output type | | 3-wire |
| Nominal ratings | | |
| Operating voltage | U_B | 5 ... 30 V |
| Switching frequency | f | 0 ... 1500 Hz |

Release date: 2022-05-30 Date of issue: 2022-05-30 Filename: 304615-0176_eng.pdf

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

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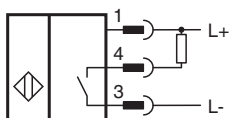
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

pf PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|---|
| Hysteresis | H | typ. 5% |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 1.5 V |
| Operating current | I_L | 0 ... 100 mA |
| Off-state current | I_r | 0 ... 0.2 mA |
| No-load supply current | I_o | ≤ 10 mA |
| Time delay before availability | t_v | ≤ 100 ms |
| Switching state indicator | | Multihole-LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 960 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| 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 | | |
| UL approval | | cULus Listed, General Purpose |
| CCC approval | | CCC approval / marking not required for products rated ≤ 36 V |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 85 °C (-13 ... 185 °F) |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) |
| Mechanical specifications | | |
| Connection type | | Connector plug M8 x 1 , 3-pin |
| Housing material | | brass, nickel-plated |
| Sensing face | | LCP |
| Degree of protection | | IP67 |

Connection



Connection Assignment




Connection Assignment

Wire colors in accordance with EN 60947-5-2

| | | | |
|---|--|----|---------|
| 1 | | BN | (brown) |
| 3 | | BU | (blue) |
| 4 | | BK | (black) |

Accessories

| | | |
|---|---------------------|--|
|  | V3-WM-2M-PUR | Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey |
|---|---------------------|--|