

Inductive proximity switches

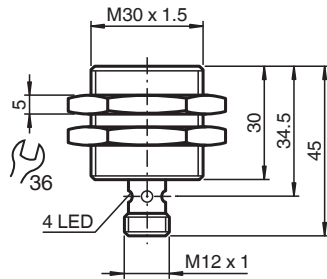
NBB10-30GM30-E0-T-V1-Y263235



- Extended temperature range
- 10 mm flush



Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-------|---|
| Switching function | | Normally open (NO) |
| Output type | | NPN |
| Rated operating distance | s_n | 10 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 8.1 mm |
| Actuating element | | mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 30 mm x 30 mm x 1 mm |
| Reduction factor r_{Al} | | 0.4 |
| Reduction factor r_{Cu} | | 0.3 |
| Reduction factor r_{304} | | 0.7 |
| Reduction factor r_{Brass} | | 0.4 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|-------------------------|--|-------|
| Installation conditions | | |
| B | | 25 mm |

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

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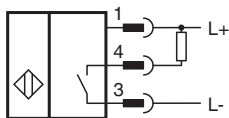
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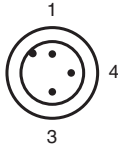
PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|--|
| C | | 16 mm |
| F | | 37 mm |
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 300 Hz |
| Hysteresis | H | 0.05 ... 2.2 mm |
| Reverse polarity protection | | yes |
| Short-circuit protection | | yes |
| Overload resistance | | yes |
| Wire breakage protection | | yes |
| Inductive overvoltage protection | | yes |
| Surge suppression | | yes |
| Ripple | | 10 % |
| Voltage drop | U_d | ≤ 2.5 V |
| Repeat accuracy | R | 0.3 mm |
| Operating current | I_L | 0 ... 200 mA up to 85 °C, above this temperature max 150 mA |
| Off-state current | I_r | ≤ 0.01 mA |
| No-load supply current | I_o | ≤ 7 mA |
| Time delay before availability | t_v | ≤ 40 ms |
| Switching state indicator | | Multihole-LED, yellow |
| Functional safety related parameters | | |
| Mission Time (T_M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| Standards | | EN 60947-5-2:2007 IEC 60947-5-2:2007 |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 100 °C (-13 ... 212 °F) |
| Storage temperature | | -40 ... 100 °C (-40 ... 212 °F) |
| Mechanical specifications | | |
| Connection type | | Connector plug M12 x 1 , 3-pin |
| Housing material | | brass, nickel-plated |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Mass | | 80 g |
| General information | | |
| Note | | The sensor can be operated at ambient temperatures of up to 120 °C for short periods (<30 minutes). In such cases, the output load capacity drops to 100 mA. |

Connection





Wire colors in accordance with EN 60947-5-2

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

Accessories

| | | |
|---|--------------|------------------------|
|  | BF 30 | Mounting flange, 30 mm |
|---|--------------|------------------------|

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