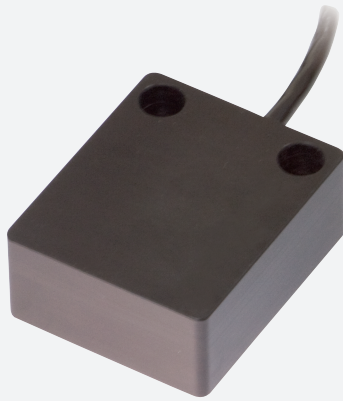


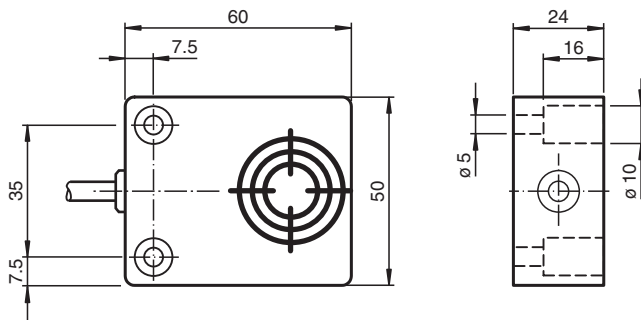


# Inductive sensor NJ20E-F34-E3-Y38055

■ Basic series



## Dimensions



## Technical Data

### General specifications

|                            |                      |               |
|----------------------------|----------------------|---------------|
| Switching function         | Normally closed (NC) |               |
| Output type                |                      | PNP           |
| Rated operating distance   | $s_n$                | 20 mm         |
| Installation               |                      | flush         |
| Output polarity            |                      | DC            |
| Assured operating distance | $s_a$                | 0 ... 16.2 mm |
| Reduction factor $r_{Al}$  |                      | 0.3           |
| Reduction factor $r_{Cu}$  |                      | 0.3           |
| Reduction factor $r_{304}$ |                      | 0.8           |
| Output type                |                      | 3-wire        |

### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 150 Hz               |
| Hysteresis                  | $H$   | typ. 5 %                   |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 2$ V                 |
| Operating current           | $I_L$ | 0 ... 200 mA               |
| Off-state current           | $I_r$ | 0 ... 0.1 mA               |
| No-load supply current      | $I_0$ | $\leq 20$ mA               |

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

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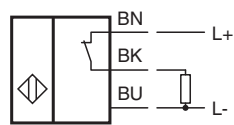
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**PEPPERL+FUCHS**

Technical Data

|                                          |                |                                 |
|------------------------------------------|----------------|---------------------------------|
| Time delay before availability           | t <sub>v</sub> | ≤ 50 ms                         |
| Compliance with standards and directives |                |                                 |
| Standard conformity                      |                |                                 |
| Standards                                |                | EN IEC 60947-5-2                |
| Ambient conditions                       |                |                                 |
| Ambient temperature                      |                | -35 ... 120 °C (-31 ... 248 °F) |
| Storage temperature                      |                | -40 ... 85 °C (-40 ... 185 °F)  |
| Mechanical specifications                |                |                                 |
| Connection type                          |                | cable PUR , 2 m                 |
| Core cross section                       |                | 0.5 mm <sup>2</sup>             |
| Housing material                         |                | PBT                             |
| Sensing face                             |                | PBT                             |
| Degree of protection                     |                | IP67                            |
| Dimensions                               |                |                                 |
| Height                                   |                | 24 mm                           |
| Width                                    |                | 50 mm                           |
| Length                                   |                | 60 mm                           |

Connection Assignment



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