



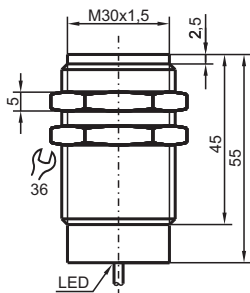
# Inductive sensor

## NMB8-30GM55-E2-FE

- Stainless steel sensing face
- Sensing range 8 mm
- 3-wire DC
- Ferrous targets



### Dimensions



### Technical Data

| General specifications       |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | PNP                |
| Rated operating distance     | $s_n$ | 8 mm               |
| Installation                 |       | flush              |
| Output polarity              |       | DC                 |
| Assured operating distance   | $s_a$ | 0 ... 6.48 mm      |
| Actuating element            |       | Ferrous targets    |
| Reduction factor $r_{Al}$    |       | 0                  |
| Reduction factor $r_{Cu}$    |       | 0                  |
| Reduction factor $r_{304}$   |       | 0.6 - 0.8          |
| Reduction factor $r_{S137}$  |       | 1                  |
| Reduction factor $r_{Brass}$ |       | 0                  |
| Nominal ratings              |       |                    |

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

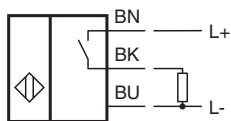
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## Technical Data

|                                                 |       |                                                                    |
|-------------------------------------------------|-------|--------------------------------------------------------------------|
| Operating voltage                               | $U_B$ | 10 ... 30 V DC                                                     |
| Switching frequency                             | $f$   | 10 Hz                                                              |
| Hysteresis                                      | $H$   | 3 ... 15 typ. 10 %                                                 |
| Reverse polarity protection                     |       | yes                                                                |
| Short-circuit protection                        |       | yes                                                                |
| Voltage drop                                    | $U_d$ | $\leq 2$ V                                                         |
| Operating current                               | $I_L$ | $\leq 200$ mA                                                      |
| Current consumption                             |       | $< 14$ mA                                                          |
| Off-state current                               | $I_r$ | $\leq 10$ $\mu$ A                                                  |
| <b>Functional safety related parameters</b>     |       |                                                                    |
| MTTF <sub>d</sub>                               |       | 990 a                                                              |
| Mission Time ( $T_M$ )                          |       | 20 a                                                               |
| Diagnostic Coverage (DC)                        |       | 0 %                                                                |
| <b>Indicators/operating means</b>               |       |                                                                    |
| Operation indicator                             |       | Dual LED<br>Green: power<br>Yellow: output                         |
| <b>Compliance with standards and directives</b> |       |                                                                    |
| Standard conformity                             |       |                                                                    |
| Standards                                       |       | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                            |
| <b>Approvals and certificates</b>               |       |                                                                    |
| UL approval                                     |       | cULus Listed, General Purpose                                      |
| CSA approval                                    |       | cCSAus Listed, General Purpose                                     |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq 36$ V |
| <b>Ambient conditions</b>                       |       |                                                                    |
| Ambient temperature                             |       | -40 ... 70 °C (-40 ... 158 °F)                                     |
| <b>Mechanical specifications</b>                |       |                                                                    |
| Connection type                                 |       | cablE PUR , 2 m                                                    |
| Core cross-section                              |       | 0.5 mm <sup>2</sup>                                                |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                                  |
| Sensing face                                    |       | Stainless steel 1.4305 / AISI 303                                  |
| Degree of protection                            |       | IP69K                                                              |

## Connection



## Accessories

|                                                                                     |              |              |
|-------------------------------------------------------------------------------------|--------------|--------------|
|  | <b>AB-30</b> | Mounting aid |
|-------------------------------------------------------------------------------------|--------------|--------------|