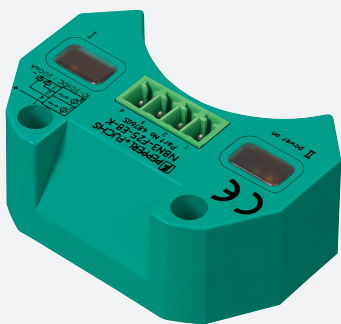


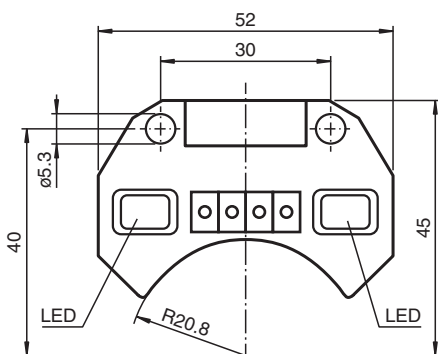
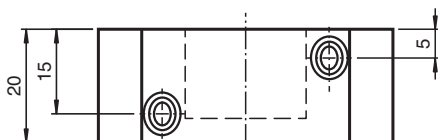


# Inductive sensor NBN3-F25F-E8-Y41365

- For installation in housing
- Direct mounting on standard actuators



## Dimensions



## Technical Data

### General specifications

|                            |       |                        |
|----------------------------|-------|------------------------|
| Switching function         |       | 2 x normally open (NO) |
| Output type                |       | PNP                    |
| Rated operating distance   | $s_n$ | 3 mm                   |
| Installation               |       | non-flush              |
| Output polarity            |       | DC                     |
| Assured operating distance | $s_a$ | 0 ... 2.43 mm          |
| Actual operating distance  | $s_r$ | 2.7 ... 3.3 mm typ.    |
| Reduction factor $r_{Al}$  |       | 0.5                    |
| Reduction factor $r_{Cu}$  |       | 0.4                    |
| Reduction factor $r_{304}$ |       | 1                      |
| Output type                |       | 3-wire                 |

Release date: 2024-05-27 Date of issue: 2024-05-31 Filename: 041365\_eng.pdf

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

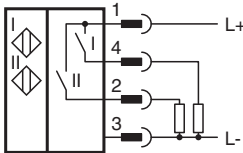
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

Technical Data

|                                          |                |                                                              |
|------------------------------------------|----------------|--------------------------------------------------------------|
| Nominal ratings                          |                |                                                              |
| Operating voltage                        | U <sub>B</sub> | 10 ... 30 V                                                  |
| Switching frequency                      | f              | 0 ... 500 Hz                                                 |
| Hysteresis                               | H              | typ. 5 %                                                     |
| Reverse polarity protection              |                | reverse polarity protected                                   |
| Short-circuit protection                 |                | pulsing                                                      |
| Voltage drop                             | U <sub>d</sub> | ≤ 3 V                                                        |
| Operating current                        | I <sub>L</sub> | 0 ... 200 mA                                                 |
| Off-state current                        | I <sub>r</sub> | 0 ... 0.5 mA typ. 0.1 µA at 25 °C                            |
| No-load supply current                   | I <sub>0</sub> | ≤ 25 mA                                                      |
| Time delay before availability           | t <sub>v</sub> | ≤ 500 ms                                                     |
| Operating voltage indicator              |                | LED, green                                                   |
| Switching state indicator                |                | LED, yellow                                                  |
| Compliance with standards and directives |                |                                                              |
| Standard conformity                      |                |                                                              |
| Standards                                |                | EN IEC 60947-5-2                                             |
| 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 ... 70 °C (-13 ... 158 °F)                               |
| Storage temperature                      |                | -40 ... 85 °C (-40 ... 185 °F)                               |
| Mechanical specifications                |                |                                                              |
| Connection type                          |                | MINI-COMBICON                                                |
| Housing material                         |                | PBT                                                          |
| Sensing face                             |                | PBT                                                          |
| Degree of protection                     |                | IP20                                                         |
| Tightening torque, fastening screws      |                | M5 x 25 : 2.7 Nm                                             |
| Dimensions                               |                |                                                              |
| Height                                   |                | 20 mm                                                        |
| Width                                    |                | 52 mm                                                        |
| Length                                   |                | 45 mm                                                        |
| Note                                     |                | Please use Phönix FK-MCP 1,5/4-ST-3,81 connector             |

Connection



Release date: 2024-05-27 Date of issue: 2024-05-31 Filename: 041365\_eng.pdf