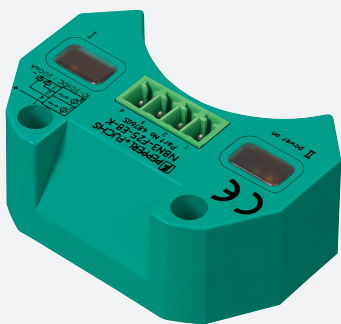


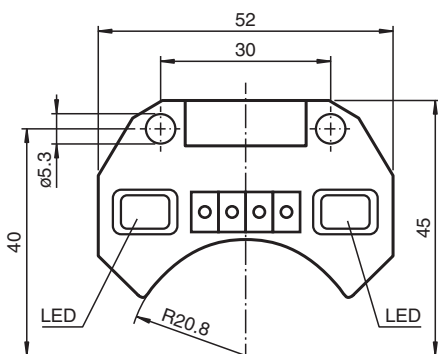
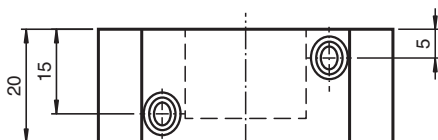


## Inductive sensor NCN3-F25F-N4-Y41364

- For installation in housing
- Direct mounting on standard actuators
- ATEX & IECEx certifications



### Dimensions



### Technical Data

#### General specifications

|                              |       |                          |
|------------------------------|-------|--------------------------|
| Switching function           |       | 2 x normally closed (NC) |
| Output type                  |       | NAMUR                    |
| Rated operating distance     | $s_n$ | 3 mm                     |
| Installation                 |       | flush mountable          |
| Assured operating distance   | $s_a$ | 0 ... 2.43 mm            |
| Actual operating distance    | $s_r$ | 2.7 ... 3.3 mm typ.      |
| Reduction factor $r_{Al}$    |       | 0.52                     |
| Reduction factor $r_{Cu}$    |       | 0.43                     |
| Reduction factor $r_{304}$   |       | 0.86                     |
| Reduction factor $r_{S137}$  |       | 1                        |
| Reduction factor $r_{Brass}$ |       | 0.54                     |

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

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**PEPPERL+FUCHS**

## Technical Data

|                                                 |                |                                                      |
|-------------------------------------------------|----------------|------------------------------------------------------|
| Output type                                     |                | 2-wire                                               |
| <b>Nominal ratings</b>                          |                |                                                      |
| Nominal voltage                                 | U <sub>o</sub> | 8.2 V (R <sub>i</sub> approx. 1 kΩ)                  |
| Switching frequency                             | f              | 0 ... 1500 Hz                                        |
| Hysteresis                                      | H              | typ. 5 %                                             |
| Reverse polarity protection                     |                | reverse polarity protected                           |
| Short-circuit protection                        |                | yes                                                  |
| Suitable for 2:1 technology                     |                | yes , Reverse polarity protection diode not required |
| Current consumption                             |                |                                                      |
| Measuring plate not detected                    |                | ≥ 3 mA                                               |
| Measuring plate detected                        |                | ≤ 1 mA                                               |
| Time delay before availability                  | t <sub>v</sub> | ≤ 1 ms                                               |
| Switching state indicator                       |                | LED, yellow                                          |
| <b>Functional safety related parameters</b>     |                |                                                      |
| MTTF <sub>d</sub>                               |                | 1038 a                                               |
| Mission Time (T <sub>M</sub> )                  |                | 20 a                                                 |
| Diagnostic Coverage (DC)                        |                | 0 %                                                  |
| <b>Compliance with standards and directives</b> |                |                                                      |
| Standard conformity                             |                |                                                      |
| NAMUR                                           |                | EN 60947-5-6:2000<br>IEC 60947-5-6:1999              |
| Electromagnetic compatibility                   |                | NE 21:2007                                           |
| Standards                                       |                | EN IEC 60947-5-2                                     |
| <b>Approvals and certificates</b>               |                |                                                      |
| IECEx approval                                  |                |                                                      |
| Equipment protection level Ga                   |                | IECEx TUN 17.0021X                                   |
| Equipment protection level Gb                   |                | IECEx TUN 17.0021X                                   |
| Equipment protection level Da                   |                | IECEx TUN 17.0021X                                   |
| Equipment protection level Mb                   |                | IECEx TUN 17.0021X                                   |
| ATEX approval                                   |                |                                                      |
| Equipment protection level Ga                   |                | TÜV 99 ATEX 1479 X                                   |
| Equipment protection level Gb                   |                | TÜV 99 ATEX 1479 X                                   |
| Equipment protection level Da                   |                | TÜV 99 ATEX 1479 X                                   |
| UL approval                                     |                |                                                      |
| Ordinary Location                               |                | E87056                                               |
| Hazardous Location                              |                | E501628                                              |
| Control drawing                                 |                | 116-0456                                             |
| CCC approval                                    |                |                                                      |
| Hazardous Location                              |                | 2020322315002262                                     |
| NEPSI approval                                  |                |                                                      |
| NEPSI certificate                               |                | GYJ19.1410X                                          |
| <b>Ambient conditions</b>                       |                |                                                      |
| Ambient temperature                             |                | -25 ... 100 °C (-13 ... 212 °F)                      |
| Storage temperature                             |                | -40 ... 100 °C (-40 ... 212 °F)                      |
| <b>Mechanical specifications</b>                |                |                                                      |
| Connection type                                 |                | MINI-COMBICON                                        |
| Housing material                                |                | PBT                                                  |
| Sensing face                                    |                | PBT                                                  |
| Degree of protection                            |                | IP67 (Sensor side)<br>IP20 (Connection side)         |
| Mass                                            |                | 37 g                                                 |
| Tightening torque, fastening screws             |                | M5 x 25 : 2.7 Nm                                     |
| Dimensions                                      |                |                                                      |
| Height                                          |                | 20 mm                                                |

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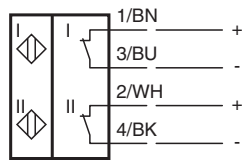
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 **PEPPERL+FUCHS**

Technical Data

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Width                     | 52 mm                                            |
| Length                    | 45 mm                                            |
| Note                      | Please use Phönix FK-MCP 1,5/4-ST-3,81 connector |
| General information       |                                                  |
| Use in the hazardous area | see instruction manuals                          |

Connection



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