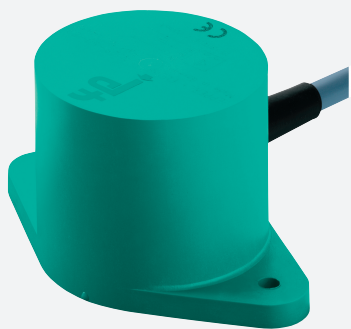


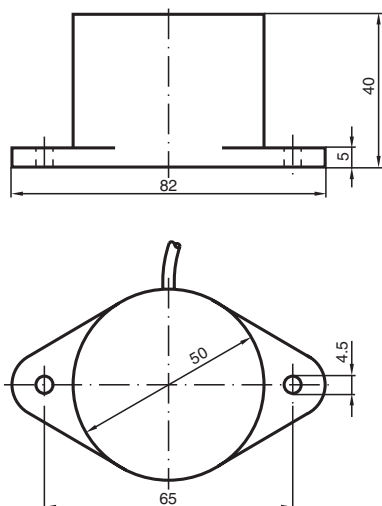


## Inductive sensor NJ25-50-N-5M

- 25 mm non-flush
- NAMUR output
- 5 meter connection cable



### Dimensions



### Technical Data

#### General specifications

|                            |                      |                |
|----------------------------|----------------------|----------------|
| Switching function         | Normally closed (NC) |                |
| Output type                | NAMUR                |                |
| Rated operating distance   | $s_n$                | 25 mm          |
| Installation               | non-flush            |                |
| Assured operating distance | $s_a$                | 0 ... 20.25 mm |
| Reduction factor $r_{Al}$  | 0.4                  |                |
| Reduction factor $r_{Cu}$  | 0.3                  |                |
| Reduction factor $r_{304}$ | 0.85                 |                |
| Output type                | 2-wire               |                |

#### Nominal ratings

|                              |       |                                      |
|------------------------------|-------|--------------------------------------|
| Nominal voltage              | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Switching frequency          | $f$   | 0 ... 250 Hz                         |
| Current consumption          |       |                                      |
| Measuring plate not detected |       | min. 3 mA                            |
| Measuring plate detected     |       | $\leq 1$ mA                          |

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

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**PEPPERL+FUCHS**

## Technical Data

### Compliance with standards and directives

#### Standard conformity

|       |                                         |
|-------|-----------------------------------------|
| NAMUR | EN 60947-5-6:2000<br>IEC 60947-5-6:1999 |
|-------|-----------------------------------------|

|           |                  |
|-----------|------------------|
| Standards | EN IEC 60947-5-2 |
|-----------|------------------|

### Approvals and certificates

#### IECEx approval

|                               |                    |
|-------------------------------|--------------------|
| Equipment protection level Gb | IECEx PTB 11.0037X |
| Equipment protection level Da | IECEx PTB 11.0037X |
| Equipment protection level Mb | IECEx PTB 11.0037X |

#### ATEX approval

|                               |                    |
|-------------------------------|--------------------|
| Equipment protection level Gb | PTB 00 ATEX 2048 X |
| Equipment protection level Da | PTB 00 ATEX 2048 X |

|             |                               |
|-------------|-------------------------------|
| UL approval | cULus Listed, General Purpose |
|-------------|-------------------------------|

#### CCC approval

|                    |                  |
|--------------------|------------------|
| Hazardous Location | 2020322315002258 |
|--------------------|------------------|

|              |            |
|--------------|------------|
| CML approval | on request |
|--------------|------------|

|       |          |
|-------|----------|
| ANZEx | 18.3018X |
|-------|----------|

### Ambient conditions

|                     |                                 |
|---------------------|---------------------------------|
| Ambient temperature | -25 ... 100 °C (-13 ... 212 °F) |
|---------------------|---------------------------------|

### Mechanical specifications

|                 |       |
|-----------------|-------|
| Connection type | cable |
|-----------------|-------|

|                  |     |
|------------------|-----|
| Housing material | PBT |
|------------------|-----|

|              |     |
|--------------|-----|
| Sensing face | PBT |
|--------------|-----|

|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

#### Cable

|                   |     |
|-------------------|-----|
| Wire end ferrules | yes |
|-------------------|-----|

|                |               |
|----------------|---------------|
| Cable diameter | 6 mm ± 0.2 mm |
|----------------|---------------|

|                |                       |
|----------------|-----------------------|
| Bending radius | > 10 x cable diameter |
|----------------|-----------------------|

|          |     |
|----------|-----|
| Material | PVC |
|----------|-----|

|       |      |
|-------|------|
| Color | blue |
|-------|------|

|                 |   |
|-----------------|---|
| Number of cores | 2 |
|-----------------|---|

|                    |                      |
|--------------------|----------------------|
| Core cross section | 0.75 mm <sup>2</sup> |
|--------------------|----------------------|

|        |   |     |
|--------|---|-----|
| Length | L | 5 m |
|--------|---|-----|

|      |       |
|------|-------|
| Mass | 423 g |
|------|-------|

|                                     |          |
|-------------------------------------|----------|
| Tightening torque, fastening screws | ≤ 1.8 Nm |
|-------------------------------------|----------|

#### Dimensions

|        |       |
|--------|-------|
| Length | 40 mm |
|--------|-------|

|          |       |
|----------|-------|
| Diameter | 50 mm |
|----------|-------|

### General information

|                           |                         |
|---------------------------|-------------------------|
| Use in the hazardous area | see instruction manuals |
|---------------------------|-------------------------|

## Connection

