## Properties

- Ø4 mm housing
- 0.8 mm and 1.5 mm, flush mountable versions
- DC, 3-wire switching output
- Cable, pigtail and connector versions

## Technical Data

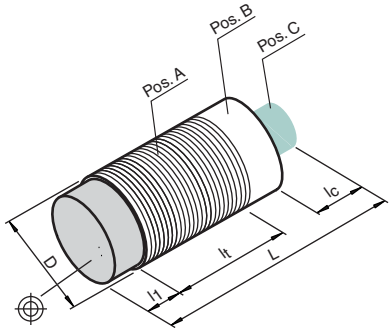
*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

| General Data | |
|---|---|
| Rated operating distance | 0.8 mm |
| Installation | flush |
| Type of voltage | DC |
| Operating voltage | 10 ... 30 V |
| Reverse polarity protection | ✔ |
| Switching frequency | 0 ... 3000 Hz |
| Short-circuit protection | pulsing |
| Indication of the switching state | LED, yellow |
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Protection degree | IP67 |
| Housing material | Stainless steel 1.4305 / AISI 303 |

| Model Number | | | NBB0,8-4M25-E0 | NBB0,8-4M25-E1 | NBB0,8-4M25-E2 | NBB0,8-4M25-E3 | NBB0,8-4M25-E0-0,3M-V3 | NBB0,8-4M25-E2-0,3M-V3 | NBB0,8-4M25-E0-V3 | NBB0,8-4M25-E2-V3 | NBB1,5-4M25-E0-V3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | green = preferred type | | | | | | | | | | |
| Switching element function | NPN | NO | ● | | | | ● | | ● | | ● |
| | NPN | NC | | ● | | | | | | | |
| | PNP | NO | | | ● | | | ● | | ● | |
| | PNP | NC | | | | ● | | | | | |
| No-load supply current | ≤ 10 mA | | | | ● | ● | | ● | | | |
| | ≤ 12 mA | | ● | ● | | | ● | | ● | ● | ● |
| Operating current | 0 ... 100 mA | | ● | ● | | | ● | | ● | ● | ● |
| | 0 ... 200 mA | | | | ● | ● | | ● | | | |
| Connection type | Device connector M8 x 1 , 3-pin | | | | | | | | ● | ● | ● |
| | cable PVC , 2 m | | ● | ● | ● | ● | | | | | |
| | Cable connector M8 x 1 , 3-pin with PVC cable 300 mm | | | | | | ● | ● | | | |
| | | | | | | | | | | | |

| Approvals and Certificates | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UL approval | cULus Listed, General Purpose | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CSA approval | cCSAus Listed, General Purpose | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CCC approval | Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. | | | | | | | | | |

| Dimensions | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Length L [mm] | 25 | | | | 25 | | | | 40 | 45 |
| Diameter D [mm] | 4 | | | | 4 | | | | 4 / 8 | |
| Thread length $l_t$ [mm] | 0 | | | | | 0 | | | | |
| Cap length $l_1$ [mm] | 0 | | | | | 0 | | | | |
| Connector area $l_c$ [mm] | 0 | | | | 0 | | | | 5 | |
| LED position | Pos. A | | | | Pos. A | | | | Pos. B | |




## Accessories

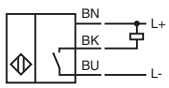
This and more accessories can be found in chapter 10

See pages from 972 ... for cordsets
See pages 1068 ... for mounting aids

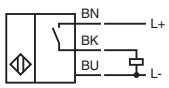
| | |
|---|---|
| **BF 4** | Mounting flange, 4 mm |

## Electrical Connection

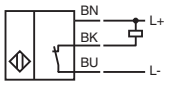
NBB0,8-4M25-E0



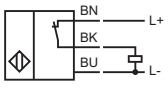

NBB0,8-4M25-E2



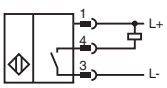

NBB0,8-4M25-E1



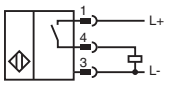

NBB0,8-4M25-E3



NBB0,8-4M25-E0-0,3M-V3
NBB0,8-4M25-E0-V3
NBB1,5-4M25-E0-V3



NBB0,8-4M25-E2-0,3M-V3
NBB0,8-4M25-E2-V3




Wire colors in accordance with EN 60947-5-2

| | | |
|---|---|---|
| 1 | BN | (brown) |
| 3 | BU | (blue) |
| 4 | BK | (black) |

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