

Inductive sensor

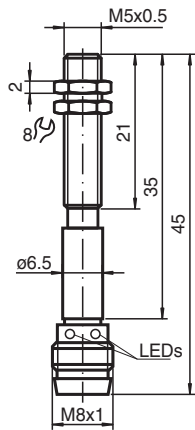
NBB0,8-5GM25-E0-V3



- Basic series
- 0.8 mm flush



Dimensions



Technical Data

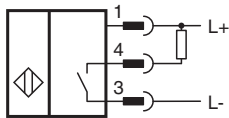
| General specifications | | |
|-----------------------------|-------|----------------------------|
| Switching function | | Normally open (NO) |
| Output type | | NPN |
| Rated operating distance | s_n | 0.8 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 0.648 mm |
| Reduction factor r_{Al} | | 0.45 |
| Reduction factor r_{Cu} | | 0.4 |
| Reduction factor r_{304} | | 0.85 |
| Output type | | 3-wire |
| Nominal ratings | | |
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 3000 Hz |
| Hysteresis | H | 5 ... 20 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |

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Technical Data

| | | |
|---|-------|--|
| Voltage drop | U_d | $\leq 3 \text{ V}$ |
| Operating current | I_L | 0.1 ... 100 mA |
| Off-state current | I_r | 0 ... 0.1 mA |
| No-load supply current | I_0 | $\leq 12 \text{ mA}$ |
| 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 $\leq 36 \text{ V}$ |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Mechanical specifications | | |
| Connection type | | Connector plug |
| Housing material | | Stainless steel 1.4305 / AISI 303 |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Connector | | |
| Threading | | M8 x 1 |
| Number of pins | | 3 |
| Dimensions | | |
| Length | | 45 mm |
| Diameter | | 5 mm |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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