



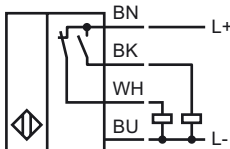
Model Number

NBB5-18GM60-A2-5M

Features

- Basic series
- 5 mm embeddable

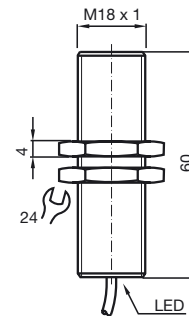
Connection



Accessories

- BF 18**
Mounting flange
- EXG-18**
Mounting aid

Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|---------------|
| Switching element function | PNP | Antivalent |
| Rated operating distance | s_n | 5 mm |
| Installation | | embeddable |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 4.05 mm |
| Reduction factor r_{Al} | | 0.25 |
| Reduction factor r_{Cu} | | 0.15 |
| Reduction factor r_{V2A} | | 0.66 |

Nominal ratings

| | | |
|-----------------------------------|-------|--|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 800 Hz |
| Reverse polarity protection | | protected against reverse polarity |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0 ... 200 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. 0.1 μ A at 25 °C |
| No-load supply current | I_0 | ≤ 20 mA |
| Indication of the switching state | | LED, yellow |

Functional safety related parameters

| | |
|--------------------------|--------|
| MTTF _d | 1140 a |
| Mission Time (T_M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Standard conformity

| | |
|-----------|-------------------------|
| Standards | IEC / EN 60947-5-2:2004 |
|-----------|-------------------------|

Ambient conditions

| | |
|---------------------|-------------------------------|
| Ambient temperature | -25 ... 70 °C (248 ... 343 K) |
|---------------------|-------------------------------|

Mechanical specifications

| | |
|--------------------|----------------------|
| Connection type | 5 m, PVC cable |
| Core cross-section | 0.34 mm ² |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Protection degree | IP67 |