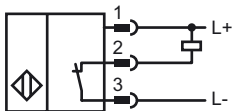




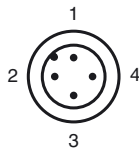
Model Number

NBN4-12GM40-E1-V1

Connection



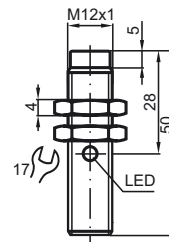
Pinout



Wire colors in accordance with EN 60947-5-2

| | |
|---|----|
| 1 | BN |
| 2 | WH |
| 3 | BU |
| 4 | BK |

Dimensions



Technical Data

General specifications

| | | |
|-----------------------------|-------|----------------|
| Switching element function | NPN | Break function |
| Rated operating distance | s_n | 4 mm |
| Installation | | not embeddable |
| Assured operating distance | s_a | 0 ... 3.24 mm |
| Reduction factor r_{Al} | | 0.45 |
| Reduction factor r_{Cu} | | 0.4 |
| Reduction factor r_{V2A} | | 0.75 |
| Reduction factor r_{Si37} | | |

Nominal ratings

| | | |
|-----------------------------------|-------|------------------------------------|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 800 Hz |
| Hysteresis | H | typ. % |
| Reverse polarity protection | | protected against reverse polarity |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0 ... 100 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. 0.1 μA at 25 °C |
| No-load supply current | I_0 | ≤ 15 mA |
| Indication of the switching state | | LED, yellow |

Standard conformity

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

Ambient conditions

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

Mechanical specifications

| | |
|--------------------|----------------------|
| Connection type | V1-connector |
| Core cross-section | - |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Protection degree | IP67 |