



Model Number

NCB5-18GM20-E2-V1-T

Features

- Basic series
- 5 mm flush

Accessories

BF 18

Mounting flange, 18 mm

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

| | | | |
|----------------------------|-------|---------------|----|
| Switching element function | | PNP | NO |
| Rated operating distance | s_n | 5 mm | |
| Installation | | flush | |
| Output polarity | | DC | |
| Assured operating distance | s_a | 0 ... 4.05 mm | |
| Reduction factor r_{Al} | | 0.3 | |
| Reduction factor r_{Cu} | | 0.3 | |
| Reduction factor r_{304} | | 0.7 | |

Nominal ratings

| | | |
|-----------------------------|-------|--|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 500 Hz |
| Reverse polarity protection | | reverse polarity protected |
| 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 μ A at 25 °C |
| No-load supply current | I_0 | ≤ 20 mA |
| Switching state indicator | | Multihole-LED, yellow |

Standard conformity

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

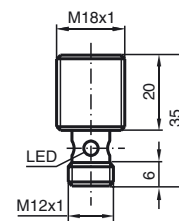
Ambient conditions

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

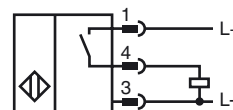
Mechanical specifications

| | |
|----------------------|-----------------------------------|
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | PBT |
| Degree of protection | IP67 |

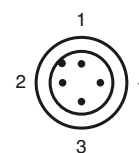
Dimensions



Electrical Connection



Pinout





Wire colors in accordance with EN 60947-5-2

| | | | |
|---|--|----|---------|
| 1 | | BN | (brown) |
| 2 | | WH | (white) |
| 3 | | BU | (blue) |
| 4 | | BK | (black) |

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