



## Model Number

NMB10-18GM50-E2-V1-F

## Features

- 10 mm flush
- Active surface metal
- One-piece housing with stainless steel (V4A; 1.4435)

## Accessories

### BF 18

Mounting flange, 18 mm

### V1-G

Female connector, M12, 4-pin, field attachable

### 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   | $s_n$ | 10 mm                                |
| Installation               |       | flush in mild steel                  |
| Output polarity            |       | DC                                   |
| Assured operating distance | $s_a$ | 0 ... 8.1 mm                         |
| Reduction factor $r_{Al}$  |       | 0.4                                  |
| Reduction factor $r_{Cu}$  |       | 0.25                                 |
| Reduction factor $r_{304}$ |       | 0.5 (0.9 of material thickness 2 mm) |
| Reduction factor $r_{S37}$ |       | 1                                    |

### Nominal ratings

#### Installation conditions

|                                |       |                   |
|--------------------------------|-------|-------------------|
| A                              |       | 0 mm              |
| B                              |       | 16 mm             |
| C                              |       | 30 mm             |
| F                              |       | 60 mm             |
| Operating voltage              | $U_B$ | 10 ... 30 V       |
| Switching frequency            | $f$   | 0 ... 300 Hz      |
| Hysteresis                     | H     | 3 ... 15 typ. 5 % |
| Reverse polarity protection    |       | yes               |
| Short-circuit protection       |       | yes               |
| Voltage drop                   | $U_d$ | $\leq 2$ V        |
| Operating current              | $I_L$ | 0 ... 200 mA      |
| Off-state current              | $I_r$ | $\leq 0.1$ mA     |
| No-load supply current         | $I_0$ | $\leq 10$ mA      |
| Time delay before availability | $t_v$ | $\leq 40$ ms      |
| Switching state indicator      |       | LED, yellow       |

### Limit data

|                               |                         |
|-------------------------------|-------------------------|
| Operating pressure statically | 60 bar (870.2 psi) max. |
|-------------------------------|-------------------------|

### Ambient conditions

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 85 °C (-13 ... 185 °F) |
|---------------------|--------------------------------|

### Mechanical specifications

|                      |                                    |
|----------------------|------------------------------------|
| Connection type      | Connector M12 x 1, 4-pin           |
| Housing material     | Stainless steel 1.4435 / AISI 316L |
| Sensing face         | Stainless steel 1.4435 / AISI 316L |
| Degree of protection | IP68 / IP69K                       |
| Mass                 | 24 g                               |

### General information

|                     |                            |
|---------------------|----------------------------|
| Assembly dimensions | x: 18 mm<br>y: $\geq 4$ mm |
|---------------------|----------------------------|

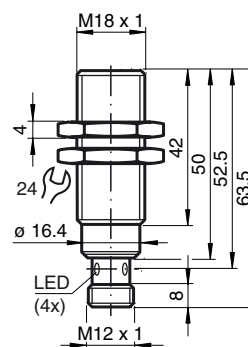
### Compliance with standards and directives

|                     |                                         |
|---------------------|-----------------------------------------|
| Standard conformity |                                         |
| Standards           | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |

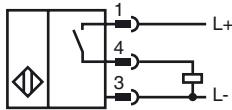
### Approvals and certificates

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| UL approval  | cULus Listed, General Purpose                                      |
| CSA approval | cCSAus Listed, General Purpose                                     |
| CCC approval | CCC approval / marking not required for products rated $\leq 36$ V |

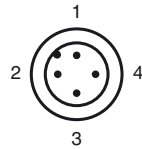
## Dimensions



## Electrical Connection



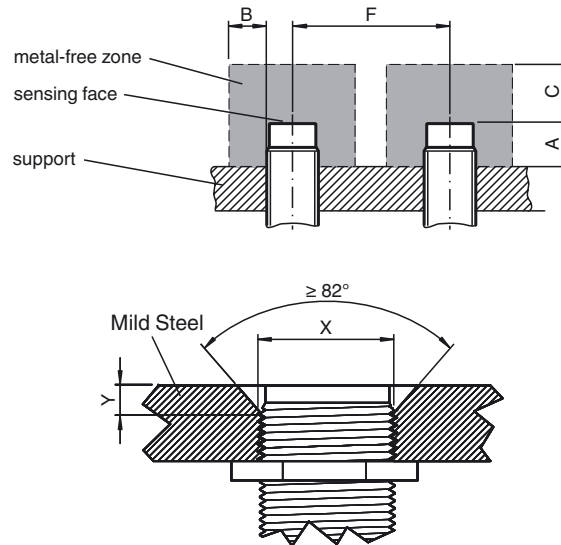
## Pinout



Wire colors in accordance with EN 60947-5-2

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

## Installation Conditions



Sensor face is flush with mounting surface.