



## Model Number

NMB8-30GM55-Z3-C-FE-300MM-V1

## Features

- Stainless steel sensing face
- Sensing range 8 mm
- 2-wire DC
- Weld field immune
- Weld slag resistant coating
- Ferrous targets

## Accessories

AB-30-L3M-C

Mounting aid

V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resistant

## Technical Data

### General specifications

|                            |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | Two-wire           |
| Rated operating distance   | $s_n$ | 8 mm               |
| Installation               |       | flush              |
| Output polarity            |       | DC                 |
| Assured operating distance | $s_a$ | 0 ... 6.48 mm      |
| Actuating element          |       | Ferrous targets    |
| Reduction factor $r_{Al}$  |       | 0                  |
| Reduction factor $r_{Cu}$  |       | 0                  |
| Reduction factor $r_{304}$ |       | 0.6 - 0.8          |
| Reduction factor $r_{S37}$ |       | 1                  |
| Output type                |       | 2-wire             |

### Nominal ratings

|                                |       |                            |
|--------------------------------|-------|----------------------------|
| Operating voltage              | $U_B$ | 6 ... 30 V DC              |
| Switching frequency            | $f$   | 0 ... 5 Hz                 |
| Hysteresis                     | $H$   | 3 ... 15 typ. 5 %          |
| Reverse polarity protection    |       | reverse polarity protected |
| Short-circuit protection       |       | no                         |
| Voltage drop                   | $U_d$ | $\leq 5.5$ V DC            |
| Operating current              | $I_L$ | $\leq 200$ mA              |
| Off-state current              | $I_r$ | $\leq 0.8$ mA              |
| Switching state indicator      |       | LED, red                   |
| Mag. Field strength, AC fields |       | 250 mT                     |
| Mag. Field strength, DC fields |       | 250 mT                     |

### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--|--------------------------------|

### Mechanical specifications

|                      |  |  |
|----------------------|--|--|
| Connection type      |  | 300 mm POC cable with 3-pin, M12 x 1 connector   |
| Housing material     |  | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Sensing face         |  | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Degree of protection |  | IP67 / according to cable specification          |

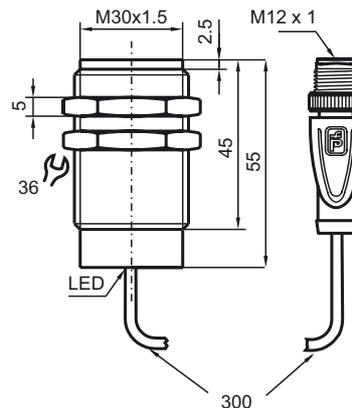
### Compliance with standards and directives

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

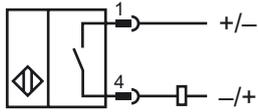
### Approvals and certificates

|              |  |  |
|--------------|--|--|
| 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 |

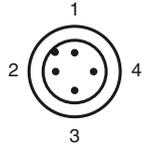
## Dimensions



**Electrical Connection**



**Pinout**



Wire colors in accordance with EN 60947-5-2

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