## Technical Data

### General specifications
- **Switching function:** Normally open (NO)
- **Output type:** Two-wire
- **Rated operating distance** $s_{n}$: 5 mm
- **Installation:** flush
- **Output polarity:** DC
- **Assured operating distance** $s_{a}$: 0...4.05 mm
- **Actuating element:** Ferrous targets
- **Reduction factor** $f_{Al}$: 0
- **Reduction factor** $f_{Cu}$: 0.6 - 0.8
- **Reduction factor** $f_{Brass}$: 1
- **Reduction factor** $f_{St37}$: 0
- **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
- **Voltage drop** $U_{d}$: ≤ 5.5 V DC
- **Operating current** $I_{L}$: 2...100 mA
- **Off-state current** $I_{r}$: ≤ 800 µA
- **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
- **Core cross-section:** 0.34 mm²
- **Housing material:** Xylan coated - Stainless steel 1.4305 / AISI 303
- **Sensing face:** Xylan coated - Stainless steel 1.4305 / AISI 303
- **Degree of protection:** IP67 / IP68 / IP69K - cordset dependent according to cable specification

### Compliance with standards and directives

### 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 ≤36 V

### Dimensions

#### Electrical Connection

![Electrical Connection Diagram]

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**Model Number**

NMB5-18GM55-Z3-C-FE-300MM-V1

**Features**

- Stainless steel sensing face
- Sensing range 5 mm
- 2-wire DC
- Weld field immune
- Weld slag resistant coating
- Ferrous targets

**Accessories**

- AB-18 Mounting aid
- V1-G-OR2M-POC Female cordset, M12, 4-pin, TPE cable, welding-bead resistant
Pinout

Wire colors in accordance with EN 60947-5-2

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