

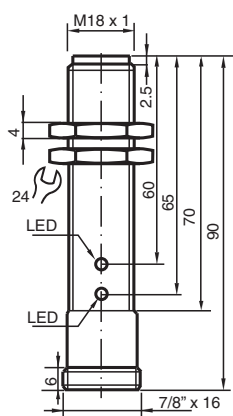


## Inductive sensor NMB5-18GM85-US-C-FE-V93

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



### Dimensions



### Technical Data

#### General specifications

|                              |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | Two-wire           |
| Rated operating distance     | $s_n$ | 5 mm               |
| Installation                 |       | flush              |
| Output polarity              |       | AC/DC              |
| Assured operating distance   | $s_a$ | 0 ... 4.05 mm      |
| Actuating element            |       | Ferrous targets    |
| Reduction factor $r_{Al}$    |       | 0                  |
| Reduction factor $r_{Cu}$    |       | 0                  |
| Reduction factor $r_{304}$   |       | 0.4 - 0.7          |
| Reduction factor $r_{S137}$  |       | 1                  |
| Reduction factor $r_{Brass}$ |       | 0                  |

#### Nominal ratings

|                      |       |              |
|----------------------|-------|--------------|
| Operating voltage DC | $U_B$ | 20 ... 300 V |
| Operating voltage AC | $U_B$ | 20 ... 250 V |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**PEPPERL+FUCHS**

## Technical Data

|                                |       |                                                                            |
|--------------------------------|-------|----------------------------------------------------------------------------|
| Switching frequency            | f     | 0 ... 5 Hz                                                                 |
| Hysteresis                     | H     | 3 ... 15 typ. 5 %                                                          |
| Reverse polarity protection    |       | reverse polarity protected                                                 |
| Short-circuit protection       |       | pulsing                                                                    |
| Voltage drop                   | $U_d$ | $\leq 7$ V                                                                 |
| Operating current              | $I_L$ | 8 ... 200 mA                                                               |
| Off-state current              | $I_r$ | $\leq 1.3$ mA                                                              |
| Operating voltage indicator    |       | LED, green                                                                 |
| Switching state indicator      |       | LED, yellow                                                                |
| Error indicator                |       | LED, green/yellow (Alternate Flashing) - Short circuit/overload indication |
| Mag. Field strength, AC fields |       | 250 mT                                                                     |
| Mag. Field strength, DC fields |       | 250 mT                                                                     |

### 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 |  | Certified by China Compulsory Certification (CCC) |

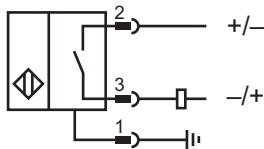
### Ambient conditions

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

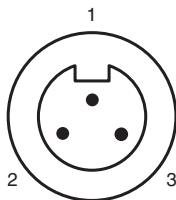
### Mechanical specifications

|                      |  |                                                  |
|----------------------|--|--------------------------------------------------|
| Connection type      |  | Connector 7/8"-16 UN , 3-pin                     |
| Housing material     |  | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Sensing face         |  | Xylan coated - Stainless steel 1.4305 / AISI 303 |
| Degree of protection |  | IP67                                             |

## Connection



## Connection Assignment



Wire colors

|   |    |         |
|---|----|---------|
| 1 | GN | (green) |
| 2 | BK | (black) |
| 3 | WH | (white) |

Accessories

|                                                                                   |              |              |
|-----------------------------------------------------------------------------------|--------------|--------------|
|  | <b>AB-18</b> | Mounting aid |
|-----------------------------------------------------------------------------------|--------------|--------------|

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