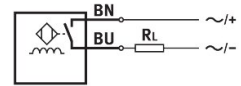


# Proximity sensor SIED-M18B-ZS-K-L-PA

Part number: 538338

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Design   | Round   |
| Conforms to standard                           | EN 60947-5-2  |
| Symbol   | 00991707  |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU low voltage directive<br>As per EU RoHS directive  |
| UKCA marking (see declaration of conformity)   | To UK RoHS instructions<br>To UK instructions for electrical equipment  |
| Measuring principle                            | Inductive   |
| Rated operating distance                       | 5 mm  |
| Assured operating distance                     | 4.05 mm   |
| Reduction factors                              | Aluminum = 0.35 - 0.5<br>Stainless steel St 18/8 = 0.6 - 1.0<br>Copper = 0.25 - 0.45<br>Brass = 0.35 - 0.5<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -25 °C ... 70 °C  |
| Repetition accuracy                            | 0.1 mm  |
| Switching output                               | Non-contacting, 2-wire  |
| Switching element function                     | N.O. contact  |
| Hysteresis                                     | 0.15 mm ... 0.75 mm   |
| Max. switching frequency DC                    | 20 Hz   |
| Max. switching frequency AC                    | 20 Hz   |
| Max. output current                            | 300 mA  |
| Voltage drop                                   | ≤6 V  |
| Minimum load current                           | 3 mA  |
| Short-circuit protection                       | No  |
| Operating voltage range AC                     | 20 V ... 250 V  |
| DC operating voltage range                     | 10 V ... 300 V  |
| Mains frequency                                | 50 Hz ... 60 Hz   |
| Idle current                                   | ≤1.5 mA   |
| Reverse polarity protection                    | for all electrical connections  |
| Electrical connection                          | Cable   |
| Electrical connection 1, connection type       | Cable   |
| Electrical connection 1, connection technology | Open end  |
| Electrical connection 1, number of pins/wires  | 2   |
| Cable length                                   | 2.5 m   |
| Material of cable sheath                       | PVC   |

| <b>Feature</b>                                       | <b>Value</b>                           |
|--|--|
| Insulating sheath material                           | PVC                                    |
| Size   | M18                                    |
| Type of mounting                                     | With locknut                           |
| Tightening torque                                    | 2 Nm                                   |
| Mounting type  | Flush                                  |
| Product weight                                       | 123 g                                  |
| Housing material                                     | PA-reinforced                          |
| Switching status indication                          | Yellow LED                             |
| Ambient temperature with flexible cable installation | 0 °C ... 70 °C                         |
| Degree of protection                                 | IP65<br>IP67                           |
| Corrosion resistance class (CRC)                     | 4 - Particularly high corrosion stress |
| LABS (PWIS) conformity                               | VDMA24364 Zone III                     |
| Selection of additional sensor information           | For direct and alternating voltage     |
| Electrical output                                    | Non-contacting, 2-wire                 |
| Selection of sensor version                          | Polyamide housing                      |