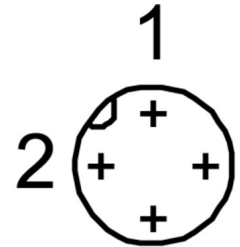
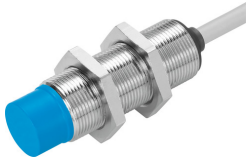


# Proximity sensor SIED-M18NB-ZO-K-L

Part number: 538278

FESTO



## Data sheet

| Feature                                    | Value                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Type code                                  | SIED                                                                                                |
| Design                                     | Round                                                                                               |
| Conforms to standard                       | EN 60947-5-2                                                                                        |
| Symbol                                     | 00992846                                                                                            |
| Certification                              | RCM compliance mark<br>c UL us - Listed (OL)                                                        |
| CE marking (see declaration of conformity) | As per EU EMC directive<br>As per EU low voltage directive                                          |
| Note on materials                          | Free of copper and PTFE                                                                             |
| Measuring principle                        | Inductive                                                                                           |
| Rated operating distance                   | 8 mm                                                                                                |
| Assured operating distance                 | 6,5 mm                                                                                              |
| Reduction factors                          | Aluminum = 0.4<br>Stainless steel St 18/8 = 0.7<br>Copper = 0.3<br>Brass = 0.4<br>Steel St 37 = 1.0 |
| Ambient temperature                        | -25 °C ... 85 °C                                                                                    |
| Repetition accuracy                        | 0.2 mm                                                                                              |
| Switching output                           | Non-contact, 2-wire                                                                                 |
| Switching element function                 | N/C contact                                                                                         |
| Hysteresis                                 | 0.03 mm ... 1.9 mm                                                                                  |
| Max. switching frequency DC                | 340 Hz                                                                                              |
| Max. switching frequency AC                | 25 Hz                                                                                               |
| Max. output current                        | 300 mA                                                                                              |
| Voltage drop                               | ≤8 V                                                                                                |
| Minimum load current                       | 5 mA                                                                                                |
| Short-circuit protection                   | no                                                                                                  |
| Operating voltage range AC                 | 20 V ... 265 V                                                                                      |
| DC operating voltage range                 | 20 V ... 320 V                                                                                      |
| Mains frequency                            | 50 Hz                                                                                               |
| Idle current                               | ≤1.5 mA                                                                                             |
| Reverse polarity protection                | for all electrical connections                                                                      |
| Electrical connection                      | 2-wire<br>Cable                                                                                     |

| Feature                                              | Value                              |
|------------------------------------------------------|------------------------------------|
| Cable length                                         | 2.5 m                              |
| Material of cable sheath                             | TPE-U(PUR)                         |
| Insulating sheath material                           | PVC                                |
| Size                                                 | M18                                |
| Type of mounting                                     | With lock nut                      |
| Tightening torque                                    | 30 Nm                              |
| Mounting type                                        | Not flush                          |
| Product weight                                       | 110 g                              |
| Housing material                                     | Brass<br>PA<br>Nickel-plated       |
| Switching status indication                          | LED yellow                         |
| Ambient temperature with flexible cable installation | -5 °C ... 50 °C                    |
| Degree of protection                                 | IP67                               |
| Corrosion resistance class (CRC)                     | 1 - Low corrosion stress           |
| Selection of additional sensor information           | For direct and alternating voltage |
| Electrical output                                    | Non-contact, 2-wire                |
| Selection of sensor version                          | Standard                           |