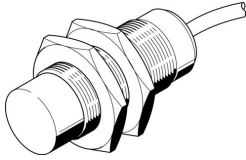


# Proximity sensor SIEF-M30NB-NS-K-L

Part number: 538322

**FESTO**



## Data sheet

| Feature                                      | Value                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------|
| Design                                       | Round                                                                                                |
| Conforms to standard                         | EN 60947-5-2                                                                                         |
| 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<br>As per EU RoHS directive               |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK instructions for electrical equipment |
| Measuring principle                          | Inductive                                                                                            |
| Rated operating distance                     | 20 mm                                                                                                |
| Assured operating distance                   | 16.2 mm                                                                                              |
| Reduction factors                            | Aluminum = 1.0<br>Stainless steel St 18/8 = 1.0<br>Copper = 1.0<br>Brass = 1.0<br>Steel St 37 = 1.0  |
| Ambient temperature                          | -30 °C...85 °C                                                                                       |
| Repetition accuracy                          | 0.4 mm                                                                                               |
| Switching output                             | NPN                                                                                                  |
| Switching element function                   | N.O. contact                                                                                         |
| Hysteresis                                   | 0.6 mm...3 mm                                                                                        |
| Max. switching frequency DC                  | 1500 Hz                                                                                              |
| Max. output current                          | 200 mA                                                                                               |
| Voltage drop                                 | 1.8 V                                                                                                |
| Short-circuit protection                     | Pulsed                                                                                               |
| DC operating voltage range                   | 10 V...30 V                                                                                          |
| Residual ripple                              | 10%                                                                                                  |
| Idle current                                 | 15 mA                                                                                                |
| Reverse polarity protection                  | for all electrical connections                                                                       |
| Electrical connection                        | 3-wire<br>Cable                                                                                      |
| Electrical connection 1, connection type     | Cable                                                                                                |

| Feature                                              | Value                                                   |
|------------------------------------------------------|---------------------------------------------------------|
| Electrical connection 1, connection technology       | Open end                                                |
| Electrical connection 1, number of pins/wires        | 3                                                       |
| Cable length                                         | 2.5 m                                                   |
| Material of cable sheath                             | TPE-U(PUR)                                              |
| Insulating sheath material                           | PVC                                                     |
| Size                                                 | M30                                                     |
| Type of mounting                                     | With locknut                                            |
| Tightening torque                                    | 75 Nm                                                   |
| Mounting type                                        | Not flush                                               |
| Product weight                                       | 194 g                                                   |
| Housing material                                     | Brass<br>PBT<br>Chrome-plated                           |
| Switching status indication                          | Yellow LED                                              |
| Ambient temperature with flexible cable installation | 0 °C...80 °C                                            |
| Degree of protection                                 | IP67                                                    |
| Resistance to interference from magnetic fields      | Magnetic direct and alternating fields                  |
| Corrosion resistance class (CRC)                     | 2 - Moderate corrosion stress                           |
| LABS (PWIS) conformity                               | VDMA24364 Zone III                                      |
| Selection of additional sensor information           | with reduction factor 1 – resistance to magnetic fields |
| Electrical output                                    | NPN                                                     |
| Selection of sensor version                          | Standard                                                |