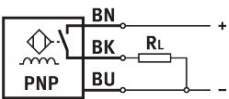


**Proximity sensor**  
**SIEN-M30B-PS-K-L-PA**  
Part number: 538327

**FESTO**



**Data sheet**

| Feature                                      | Value                                                                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Design                                       | Round                                                                                                                            |
| Conforms to standard                         | EN 60947-5-2                                                                                                                     |
| Approval                                     | RCM trademark<br>c UL us listed (OL)                                                                                             |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>To EU Low Voltage Directive<br>In accordance with EU RoHS Directive                                       |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK regulations for electrical equipment                              |
| Measuring principle                          | Inductive                                                                                                                        |
| Rated operating distance                     | 10 mm                                                                                                                            |
| Assured operating distance                   | 8.1 mm                                                                                                                           |
| Reduction factors                            | Aluminium = 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                          | 0.2 mm                                                                                                                           |
| Switching output                             | PNP                                                                                                                              |
| Switching element function                   | N/O contact                                                                                                                      |
| Hysteresis                                   | 0.3 mm...1.5 mm                                                                                                                  |
| Max. switching frequency DC                  | 500 Hz                                                                                                                           |
| Max. output current                          | 200 mA                                                                                                                           |
| Voltage drop                                 | 1.8 V                                                                                                                            |
| Short circuit current rating                 | Pulsed                                                                                                                           |
| Operational voltage range DC                 | 10 V...30 V                                                                                                                      |
| Residual ripple                              | 10 %                                                                                                                             |
| No-load supply 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, connector system            | Open end                       |
| Electrical connection 1, number of connections/cores | 3                              |
| Cable length                                         | 2.5 m                          |
| Material cable sheath                                | PVC                            |
| Material insulating sheath                           | PVC                            |
| Size                                                 | M30                            |
| Type of mounting                                     | Via lock nut                   |
| Tightening torque                                    | 5 Nm                           |
| Mounting type                                        | Flush                          |
| Product weight                                       | 158 g                          |
| Material housing                                     | PA-reinforced                  |
| Switching status indication                          | Yellow LED                     |
| Ambient temperature with moving cable                | 0 °C...70 °C                   |
| Degree of protection                                 | IP65<br>IP67                   |
| Corrosion resistance class CRC                       | 4 - Very high corrosion stress |
| LABS (PWIS) conformity                               | VDMA24364 zone III             |
| Additional information for sensor selection          | with standard sensing distance |
| Electrical output                                    | PNP                            |
| Selection of sensor design                           | Polyamide housing              |