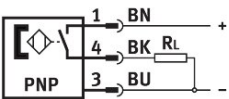


**Proximity sensor**  
**SMT-8-SL-PS-LED-24-B**  
Part number: 562019

**FESTO**



**Data sheet**

| Feature                                      | Value                                                                                                 |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Design                                       | For T-slot                                                                                            |
| Based on 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>In accordance with EU RoHS Directive                                           |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                                                 |
| Certificate issuing authority                | UL E232949                                                                                            |
| Note on materials                            | RoHS-compliant                                                                                        |
| Instructions on use                          | <a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a> |
| Measured variable                            | Position                                                                                              |
| Measuring principle                          | Magneto-resistive                                                                                     |
| Ambient temperature                          | -20 °C...70 °C                                                                                        |
| Repetition accuracy                          | 0.2 mm                                                                                                |
| Switching output                             | PNP                                                                                                   |
| Switching element function                   | N/O contact                                                                                           |
| Switch-on time                               | 1 ms                                                                                                  |
| Switch-off time                              | 2 ms...6 ms                                                                                           |
| Max. switching frequency                     | 140 Hz                                                                                                |
| Max. output current                          | 100 mA                                                                                                |
| Max. switching capacity DC                   | 3 W                                                                                                   |
| Voltage drop                                 | 2 V                                                                                                   |
| Inductive protective circuit                 | Adapted to MZ, MY, ME coils                                                                           |
| Min. load current                            | 0.1 mA                                                                                                |
| Off-state current                            | 2 µA                                                                                                  |
| Short circuit current rating                 | yes                                                                                                   |
| Overload protection                          | Yes                                                                                                   |
| Rated operational voltage DC                 | 24 V                                                                                                  |
| Operational voltage range DC                 | 10 V...30 V                                                                                           |
| Residual ripple                              | 10 %                                                                                                  |
| Reverse polarity protection                  | For all electrical connections                                                                        |

| Feature                                              | Value                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------|
| Electrical connection 1, connection type             | Plugs                                                                      |
| Electrical connection 1, connector system            | M8x1, A-coded, to EN 61076-2-104                                           |
| Electrical connection 1, number of connections/cores | 3                                                                          |
| Electrical connection 1, type of mounting            | Snap-locking<br>Screw-type lock<br>Not rotatable                           |
| Electrical connection 1, compatible type of mounting | Compatible with latching lock<br>Compatible with rotatable screw-type lock |
| Connection outlet orientation                        | In-line                                                                    |
| Material electrical contact                          | Gold-plated brass                                                          |
| Material screw-type lock                             | High-alloy stainless steel                                                 |
| Type of mounting                                     | Screw-clamped<br>Insertable in the slot lengthwise                         |
| Tightening torque                                    | 0.12 Nm...0.4 Nm                                                           |
| Max. tightening torque                               | 0.4 Nm                                                                     |
| Mounting position                                    | optional                                                                   |
| Product weight                                       | 4.2 g                                                                      |
| Housing colour                                       | Black                                                                      |
| Material housing                                     | PA<br>High-alloy stainless steel                                           |
| Switching status indication                          | Yellow LED                                                                 |
| Degree of protection                                 | IP65<br>IP68                                                               |
| LABS (PWIS) conformity                               | VDMA24364-B2-L                                                             |