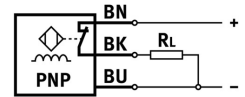


# Proximity sensor SIES-8M-PO-24V-K-7,5-OE

Part number: 551391

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Design   | for T-slot   |
| Conforms to standard                           | EN 60947-5-2   |
| Symbol   | 00991613   |
| 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 RoHS directive  |
| KC characters                                  | KC EMC   |
| Note on materials                              | RoHS-compliant   |
| Measured variable                              | Position   |
| Measuring principle                            | Inductive  |
| Rated operating distance                       | 1.5 mm   |
| Reduction factors                              | Aluminum = 0.62<br>Stainless steel V2A = 0.95<br>Copper = 0.6<br>Brass = 0.72<br>Steel St 37 = 1.0 |
| Ambient temperature                            | -25 °C ... 70 °C   |
| Repetition accuracy under constant conditions  | ≤ 0.05 mm, approach from the side  |
| Switching output                               | PNP  |
| Switching element function                     | N/C contact  |
| On time  | ≤ 1.0E-4 ms  |
| Max. switching frequency                       | 4500 Hz  |
| Max. output current                            | 150 mA   |
| Max. switching capacity DC                     | 4.5 W  |
| Voltage drop                                   | ≤ 2 V  |
| Inductive protective circuit                   | Installed  |
| Minimum load current                           | 0 mA   |
| Residual current                               | ≤ 0.01 mA  |
| Short-circuit protection                       | Pulsed   |
| Overload protection                            | Available  |
| DC operating voltage range                     | 10 V ... 30 V  |
| Residual ripple                                | 10 %   |
| Idle current                                   | ≤ 10 mA  |
| Reverse polarity protection                    | for all electrical connections   |
| Electrical connection 1, connection type       | Cable  |
| Electrical connection 1, connection technology | Open end   |

| Feature  | Value   |
|--|---|
| Electrical connection 1, number of pins/wires        | 3   |
| Connection outlet orientation                        | Longitudinal  |
| Connector cable test conditions                      | Flexural strength: as per Festo standard<br>Test conditions on request<br>Energy chain > 5 million cycles, bending radius 75 mm   |
| Cable length   | 7.5 m   |
| Cable characteristic                                 | Standard/suitable for energy chains   |
| Color cable sheath                                   | Gray  |
| Material of cable sheath                             | TPE-U(PU)   |
| Insulating sheath material                           | PP  |
| Size   | Slot 8  |
| Type of mounting                                     | Flush with T-slot<br>Screwed tightly<br>Can be inserted in slot from above  |
| Tightening torque                                    | 0.6 Nm  |
| Mounting position                                    | Any   |
| Mounting type  | Flush   |
| Housing colour                                       | Black   |
| Housing material                                     | PA<br>PUR<br>High-alloy stainless steel   |
| Switching status indication                          | LED yellow  |
| Ambient temperature with flexible cable installation | -5 °C ... 70 °C   |
| Degree of protection                                 | IP65<br>IP67  |
| Insulation voltage                                   | 50 V  |
| Surge resistance                                     | 0.8 kV  |
| Corrosion resistance class (CRC)                     | 3 - High corrosion stress   |
| LABS (PWIS) conformity                               | VDMA24364-B2-L  |
| Suitability for the production of Li-ion batteries   | Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                      | Class 4 according to ISO 14644-1  |
| Contamination level                                  | 3   |
| Selection of additional sensor information           | for T-slot  |
| Electrical output                                    | PNP   |
| Selection of sensor version                          | Special design  |