

# Proximity sensor SIES-8M-PO-24V-K-5,0-M8D

Part number: 551394

FESTO



## Data sheet

| Feature                                       | Value  |
|---|--|
| Design  | for T-slot   |
| 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 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                                       | 0.1 µs   |
| 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                              | 10 µA  |
| Short-circuit protection                      | Pulsed   |
| Overload protection                           | Available  |
| DC operating voltage range                    | 10 V...30 V  |
| Residual ripple                               | 10 %   |
| Idle current                                  | 10 mA  |

| Feature  | Value   |
|--|---|
| Reverse polarity protection                          | for all electrical connections  |
| Electrical connection 1, connection type             | Cable with plug   |
| Electrical connection 1, connection technology       | M8x1 A-coded as per EN 61076-2-104  |
| Electrical connection 1, number of pins/wires        | 3   |
| Electrical connection 1, type of mounting            | Screw-type lock   |
| Connection outlet orientation                        | Longitudinal  |
| Material of pin contacts                             | Brass, gold-plated  |
| 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   | 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                                     | Brass, nickel-plated<br>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)                     | 2 - Moderate corrosion stress   |
| LABS (PWIS) conformity                               | VDMA24364-B2-L  |
| 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  |