

Proximity sensor SIES-8M-NO-24V-K-7,5-OE

Part number: 551401

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|--|
| Design | for T-slot |
| Conforms to standard | EN 60947-5-2 |
| Symbol | 00991643 |
| Certification | RCM compliance mark c UL us - Listed (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| 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 Stainless steel V2A = 0.95 Copper = 0.6 Brass = 0.72 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 | NPN |
| 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 |

| Feature | Value |
|---|--|
| Electrical connection 1, connection technology | Open end |
| Electrical connection 1, number of pins/wires | 3 |
| Connection outlet orientation | Longitudinal |
| Connector cable test conditions | Flexural strength: as per Festo standard Test conditions on request 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 | PVC |
| Size | Slot 8 |
| Type of mounting | Flush with T-slot Screwed tightly Can be inserted in slot from above |
| Tightening torque | 0.6 Nm |
| Mounting position | Any |
| Mounting type | Flush |
| Housing colour | Black |
| Housing material | PUR High-alloy stainless steel |
| Switching status indication | LED yellow |
| Ambient temperature with flexible cable installation | -5 °C ... 70 °C |
| Degree of protection | IP65 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 | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1 |
| Contamination level | 3 |
| Selection of additional sensor information | for T-slot |
| Electrical output | NPN |
| Selection of sensor version | Special design |