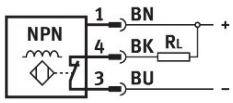
# Proximity sensor
# SIES-8M-NO-24V-K-10-M8D

Part number: 551405






## Data sheet

| Feature | Value |
|---|---|
| Design | For T-slot |
| 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>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |
| KC mark | KC-EMV |
| Note on materials | RoHS-compliant |
| Measured variable | Position |
| Measuring principle | Inductive |
| Rated operating distance | 1.5 mm |
| Reduction factors | Aluminium = 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 with constant conditions | <= 0.05 mm, approach from the side |
| Switching output | NPN |
| Switching element function | N/C contact |
| Switch-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 | Integrated |
| Min. load current | 0 mA |
| Off-state current | 10 µA |
| Short circuit current rating | Pulsed |
| Overload protection | Available |
| Operational voltage range DC | 10 V...30 V |

| Feature | Value |
|---|---|
| Residual ripple | 10 % |
| No-load supply current | 10 mA |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Cable with plug |
| 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 | Screw-type lock<br>Rotatable |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable/non-rotatable screw-type lock |
| Connection outlet orientation | In-line |
| Material electrical contact | Gold-plated brass |
| Test conditions cable | Bending strength: to Festo standard<br>Test conditions on request<br>Energy chain: > 5 million cycles, bending radius 75 mm |
| Cable length | 10 m |
| Cable characteristic | Standard/suitable for energy chains |
| Cable sheath colour | Grey |
| Material cable sheath | TPE-U(PU) |
| Material insulating sheath | PVC |
| Size | Slot 8 |
| Type of mounting | Flush with T-slot<br>Screw-clamped<br>Insertable in the slot from above |
| Tightening torque | 0.6 Nm |
| Mounting position | optional |
| Mounting type | Flush |
| Housing colour | Black |
| Material housing | Brass, nickel-plated<br>PA<br>PUR<br>High-alloy stainless steel |
| Switching status indication | Yellow LED |
| Ambient temperature with moving cable | -5 °C...70 °C |
| Degree of protection | IP65<br>IP67 |
| Insulation voltage | 50 V |
| Immunity to surge | 0.8 kV |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1 |
| Pollution degree | 3 |
| Additional information for sensor selection | For T-slot |
| Electrical output | NPN |
| Selection of sensor design | Special design |