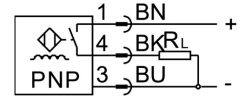


# Proximity sensor SIES-8M-PS-24V-K-2,5-M8D

Part number: 551388

**FESTO**



## Data sheet

| Feature                                               | Value                                                                                                                         |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Type code                                             | SIES                                                                                                                          |
| Electrical connection 1, connection technology        | M8x1 A-coded as per EN 61076-2-104                                                                                            |
| Electrical connection 1, connection type              | Cable with plug                                                                                                               |
| Electrical connection for input 1, connection pattern | 00991155                                                                                                                      |
| KC characters                                         | KC EMC                                                                                                                        |
| Electrical connection 1, type of mounting             | Screw-type lock                                                                                                               |
| Electrical connection 1, number of pins/wires         | 3                                                                                                                             |
| Design                                                | for T-slot                                                                                                                    |
| Conforms to standard                                  | EN 60947-5-2                                                                                                                  |
| Symbol                                                | 00991701                                                                                                                      |
| Certification                                         | RCM compliance mark<br>c UL us - Listed (OL)                                                                                  |
| CE marking (see declaration of conformity)            | As per EU EMC directive                                                                                                       |
| Note on materials                                     | Free of copper and PTFE<br>RoHS-compliant                                                                                     |
| 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/O contact                                                                                                                   |
| Max. switching frequency                              | 4500 Hz                                                                                                                       |
| Max. output current                                   | 150 mA                                                                                                                        |
| Short-circuit protection                              | Pulsed                                                                                                                        |
| DC operating voltage range                            | 10 V ... 30 V                                                                                                                 |
| Idle current                                          | ≤ 10 mA                                                                                                                       |
| Reverse polarity protection                           | for all electrical connections                                                                                                |
| Electrical connection                                 | 3-pin<br>Cable with plug<br>M8x1<br>Rotatable thread                                                                          |
| Connection outlet orientation                         | Longitudinal                                                                                                                  |
| Connector cable test conditions                       | Flexural strength: as per Festo standard<br>Test conditions on request<br>Cable chain: 5 million cycles, bending radius 75 mm |

| Feature                                              | Value                                                                      |
|------------------------------------------------------|----------------------------------------------------------------------------|
| Cable length                                         | 2.5 m                                                                      |
| Cable characteristic                                 | Standard + cable chain                                                     |
| Material of cable sheath                             | TPE-U(PU)                                                                  |
| Size                                                 | Slot 8                                                                     |
| Type of mounting                                     | Flush with T-slot<br>Screwed tightly<br>Can be inserted in slot from above |
| 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                                                                     |
| Contamination level                                  | 3                                                                          |
| Selection of additional sensor information           | For T-slot                                                                 |
| Electrical output                                    | PNP                                                                        |
| Selection of sensor version                          | Special design                                                             |