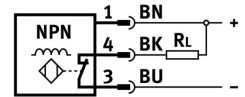


# Proximity sensor SIES-8M-NO-24V-K-5,0-M8D

Part number: 551404

FESTO



[General operating condition](#)

## Data sheet

| Feature                                        | Value                                                                                              |
|------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Design                                         | for T-slot                                                                                         |
| Conforms to standard                           | EN 60947-5-2                                                                                       |
| Symbol                                         | 00991645                                                                                           |
| 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                               | 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 with plug                                                                                    |
| Electrical connection 1, connection technology | M8x1 A-coded as per EN 61076-2-104                                                                 |

| Feature                                               | Value                                                                                                                           |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection 1, number of pins/wires         | 3                                                                                                                               |
| Electrical connection 1, type of mounting             | Screw-type lock                                                                                                                 |
| Electrical connection for input 1, connection pattern | 00991155                                                                                                                        |
| 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                                     | NPN                                                                                                                             |
| Selection of sensor version                           | Special design                                                                                                                  |