

# Proximity sensor SDBC-MSB-1L-NU-K-0.3-M8

Part number: 8139727

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Design   | For C-slot  |
| Conforms to standard                                 | EN 60947-5-2  |
| Symbol   | 00991150  |
| Approval   | RCM   |
| 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 RoHS instructions   |
| KC mark  | KC-EMV  |
| Special characteristics                              | Oil-resistant   |
| Note on materials                                    | RoHS compliant<br>Free of halogen<br>Copper-free  |
| Instructions on use                                  | Cable flame-protected and flame-retardant as per UL Standard 758 Horizontal Flame Test, does not comply with fire protection to IEC 61010-1:2017, Edition 3.1, Section 9.3. |
| Measured variable                                    | Position  |
| Measuring principle                                  | Magneto-resistive   |
| Ambient temperature                                  | -20 °C ... 70 °C  |
| Repetition accuracy                                  | 0.2 mm  |
| Switching output                                     | NPN   |
| Switching element function                           | N/O contact   |
| Switch-on time                                       | ≤2.5 ms   |
| Switch-off time                                      | ≤2.5 ms   |
| Max. switching frequency                             | 480 Hz  |
| Max. output current                                  | 100 mA  |
| Max. switching capacity DC                           | 3 W   |
| Voltage drop   | ≤0.5 V  |
| Short circuit current rating                         | No  |
| Overload protection                                  | No  |
| Rated operational voltage DC                         | 24 V  |
| Operational voltage range DC                         | 10 V ... 30 V   |
| 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            | Rotatable   |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable/non-rotatable screw-type lock   |

| Feature                                     | Value  |
|---|--|
| Electrical connection 1, connection pattern | 00991155   |
| Connection outlet orientation               | In-line  |
| Material screw-type lock                    | High-alloy stainless steel                         |
| Cable length                                | 0.3 m  |
| Cable characteristic                        | Standard<br>Suitable for energy chains             |
| Material cable sheath                       | PUR  |
| Material insulating sheath                  | PP   |
| Type of mounting                            | Screw-clamped<br>Insertable in the slot from above |
| Max. tightening torque                      | 0.2 Nm   |
| Mounting position                           | Any  |
| Product weight                              | 10 g   |
| Material housing                            | Makrolon®  |
| Switching status indication                 | Yellow LED   |
| Ambient temperature with moving cable       | -20 °C ... 70 °C                                   |
| Degree of protection                        | IP67<br>IP68<br>To IEC 60529                       |
| LABS (PWIS) conformity                      | VDMA24364 zone III                                 |