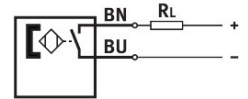


# Proximity switch

## SDBT-MSB-1L-ZU-K-2-LE

Part number: 8150173

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Design   | for T-slot  |
| Conforms to standard                           | EN 60947-5-2  |
| Certification                                  | RCM compliance mark                                   |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive   |
| UKCA marking (see declaration of conformity)   | To UK instructions for EMC<br>To UK RoHS instructions |
| KC characters                                  | KC EMC  |
| Special features                               | Oil-resistant   |
| Note on materials                              | RoHS-compliant<br>Halogen-free<br>Copper-free         |
| Measured variable                              | Position  |
| Measuring principle                            | Magneto-resistive                                     |
| Ambient temperature                            | -20 °C...70 °C  |
| Repetition accuracy                            | 0.2 mm  |
| Switching output                               | Non-contact, 2-wire                                   |
| Switching element function                     | N/O contact   |
| On time  | 2.5 ms  |
| Switch-off time                                | 2.5 ms  |
| Max. switching frequency                       | 480 Hz  |
| Max. output current                            | 50 mA   |
| Max. switching capacity DC                     | 1.4 W   |
| Voltage drop                                   | 2.8 V   |
| Short-circuit protection                       | no  |
| Overload protection                            | Not available   |
| Rated operating voltage DC                     | 24 V  |
| DC operating voltage range                     | 10 V...28 V   |
| Reverse polarity protection                    | no  |
| Electrical connection 1, connection type       | Cable   |
| Electrical connection 1, connection technology | Open end  |
| Electrical connection 1, number of pins/wires  | 2   |

| Feature  | Value   |
|--|---|
| Connection outlet orientation                        | Longitudinal  |
| Cable length   | 2 m   |
| Cable characteristic                                 | Standard<br>Suitable for energy chains  |
| Material of cable sheath                             | PUR   |
| Insulating sheath material                           | PP  |
| Wire ends  | Cut off bluntly   |
| Type of mounting                                     | Screwed tightly<br>Can be inserted in slot from above   |
| Max. tightening torque                               | 0.3 Nm  |
| Mounting position                                    | Any   |
| Product weight                                       | 24 g  |
| Housing material                                     | PC  |
| Material of union nut                                | High-alloy stainless steel  |
| Switching status indication                          | LED yellow  |
| Ambient temperature with flexible cable installation | -20 °C...70 °C  |
| Degree of protection                                 | IP67<br>IP68<br>as per IEC 60529  |
| LABS (PWIS) conformity                               | VDMA24364 zone III  |
| Suitability for the production of Li-ion batteries   | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                      | Class 4 according to ISO 14644-1  |