

# Proximity sensor SMT-C1-PS-24V-K-0,3-M12

Part number: 571341

FESTO



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Design  | Block design   |
| Based on norm   | EN 60947-5-2   |
| Symbol  | 00991153   |
| 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 RoHS instructions  |
| Note on materials                                     | RoHS compliant<br>Halogen-free   |
| Application note                                      | Support / actuator-sensor overview "The right sensor for the actuator" |
| Measured variable                                     | Position   |
| Measuring principle                                   | Magneto-inductive  |
| Ambient temperature                                   | -20 °C ... 70 °C   |
| Switching output                                      | PNP  |
| Switching element function                            | N.O. contact   |
| Hysteresis  | ≤2 mm  |
| On time   | ≤0.5 ms  |
| Switch-off time                                       | ≤0.5 ms  |
| Max. output current                                   | 200 mA   |
| Max. switching capacity DC                            | 6 W  |
| Voltage drop  | <1.8 V   |
| Inductive protective circuit                          | Adapted to MZ, MY and ME coils   |
| Minimum load current                                  | 0 mA   |
| Residual current                                      | <0.1 mA  |
| Short-circuit protection                              | Yes  |
| Overload protection                                   | Yes  |
| Rated operating voltage DC                            | 24 V   |
| DC operating voltage range                            | 10 V ... 30 V  |
| Residual ripple                                       | 10%  |
| Reverse polarity protection                           | for all electrical connections   |
| Electrical connection 1, connection type              | Cable with plug  |
| Electrical connection 1, connection technology        | M12x1 A-coded as per EN 61076-2-101                                    |
| Electrical connection 1, number of pins/wires         | 3  |
| Electrical connection 1, type of mounting             | Rotatable  |
| Electrical connection 1, type of mounting             | Compatible with rotatable/non-rotatable screw-type lock                |
| Electrical connection for input 1, connection pattern | 00995573   |

| Feature  | Value   |
|--|---|
| Connection outlet orientation                        | Longitudinal  |
| Material of pin contacts                             | Gold-plated brass   |
| Material of screw-type lock                          | Brass, nickel-plated  |
| Cable length   | 0.3 m   |
| Color cable sheath                                   | Gray  |
| Material of cable sheath                             | TPE-O   |
| Type of mounting                                     | Clamped   |
| Tightening torque                                    | 1.2 Nm  |
| Mounting position                                    | Any   |
| Product weight                                       | 32.6 g  |
| Housing colour                                       | Black   |
| Housing material                                     | Wrought aluminum alloy<br>TPE-U(PU)<br>high-alloy stainless steel |
| Switching status indication                          | Yellow LED  |
| Ambient temperature with flexible cable installation | -20 °C ... 70 °C  |
| Degree of protection                                 | IP65<br>IP68<br>As per IEC 60529                                  |
| LABS (PWIS) conformity                               | VDMA24364-B2-L  |
| For use in the food industry                         | See supplementary material information                            |