

Proximity sensor SMT-8M-A-PS-24V-E-0,3-M8D-EX2

Part number: 574342

FESTO



Data sheet

| Feature | Value |
|---|--|
| Type code | SMT |
| Electrical connection 1, type of mounting | Screw-type lock |
| Electrical connection for input 1, connection pattern | 00991155 |
| Electrical connection 1, connection technology | M8x1 A-coded as per EN 61076-2-104 |
| Electrical connection 1, connection type | Cable with plug |
| KC characters | KC EMC |
| Repetition accuracy | 0.2 mm |
| Electrical connection 1, number of pins/wires | 3 |
| Design | for T-slot |
| Based on norm | EN 60947-5-2 |
| Symbol | 00991153 |
| Certification | c UL us - Listed (OL) RCM compliance mark |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive as per EU explosion protection directive (ATEX) |
| Explosion prevention and protection | Zone 2 (ATEX) Zone 22 (ATEX) |
| ATEX category gas | II 3G |
| Type of ignition protection for gas | Ex nA IIC T4 X Gc |
| ATEX category for dust | II 3D |
| Type of (ignition) protection for dust | Ex tc IIIC T120°C X Dc |
| Explosive ambient temperature | -40°C ≤ Ta ≤ +70°C |
| Special features | Oil-resistant |
| Note on materials | Free of copper and PTFE Halogen-free RoHS-compliant |
| Measured variable | Position |
| Measuring principle | Magneto-resistive |
| Ambient temperature | -40 °C ... 85 °C |
| Switching output | PNP |
| Switching element function | N/O contact |
| On time | ≤ 1.3 ms |
| Switch-off time | ≤ 1.4 ms |
| Max. switching frequency | 180 Hz |
| Max. output current | 100 mA |
| Max. output current in mounting kits | 80 mA |

| Feature | Value |
|--|--|
| Max. switching capacity DC | 2.8 W |
| Max. switching capacity DC in mounting kits | 2.2 W |
| Voltage drop | <1.5 V |
| Short-circuit protection | yes |
| Overload protection | Available |
| Rated operating voltage DC | 24 V |
| DC operating voltage range | 5 V ... 30 V |
| Reverse polarity protection | for all electrical connections |
| Connection outlet orientation | Longitudinal |
| Connector cable test conditions | Test conditions on request Flexural strength: as per Festo standard Cable chain: 5 million cycles, bending radius 28 mm Torsional resistance: > 300 000 cycles, ±270°/0.1 m |
| Cable length | 0.3 m |
| Cable characteristic | Suitability for energy chains/robot applications |
| Color cable sheath | Gray |
| Material of cable sheath | TPE-U(PUR) |
| Type of mounting | Screwed tightly Can be inserted in slot from above |
| Max. tightening torque | 0.6 Nm |
| Mounting position | Any |
| Product weight | 8.9 g |
| Housing colour | Black |
| Housing material | High-alloy stainless steel Brass, nickel-plated PA-reinforced |
| Switching status indication | LED yellow |
| Function reserve indication | LED orange |
| Ambient temperature with flexible cable installation | -20 °C ... 85 °C |
| Degree of protection | IP69K IP68 IP65 |