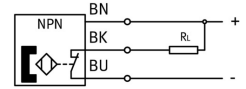


# Proximity switch

## SMT-8M-A-NO-24V-E-7,5-OE

Part number: 8138001

FESTO



## Data sheet

| Feature                                        | Value                                                     |
|------------------------------------------------|-----------------------------------------------------------|
| Type code                                      | SMT                                                       |
| Electrical connection 1, connection technology | Open end                                                  |
| Electrical connection 1, connection type       | Cable                                                     |
| 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                                         | 00997287                                                  |
| Certification                                  | RCM compliance mark                                       |
| CE marking (see declaration of conformity)     | As per EU EMC directive<br>As per EU RoHS directive       |
| Special features                               | Oil-resistant                                             |
| Note on materials                              | Free of copper and PTFE<br>RoHS-compliant<br>Halogen-free |
| Measured variable                              | Position                                                  |
| Measuring principle                            | Magneto-resistive                                         |
| Ambient temperature                            | -40 °C ... 85 °C                                          |
| Switching output                               | NPN                                                       |
| Switching element function                     | N/C 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           | 100 mA                                                    |
| Max. switching capacity DC                     | 2.8 W                                                     |
| Max. switching capacity DC in mounting kits    | 2.8 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                                              |

| Feature                                              | Value                                                                                                                                                                                |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connector cable test conditions                      | Flexural strength: as per Festo standard<br>Test conditions on request<br>Cable chain: 5 million cycles, bending radius 28 mm<br>Torsional resistance: > 300 000 cycles, ±270°/0.1 m |
| Cable length                                         | 7.5 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<br>Can be inserted in slot from above                                                                                                                                |
| Max. tightening torque                               | 0.6 Nm                                                                                                                                                                               |
| Mounting position                                    | Any                                                                                                                                                                                  |
| Product weight                                       | 85.1 g                                                                                                                                                                               |
| Housing colour                                       | Black                                                                                                                                                                                |
| Housing material                                     | PA-reinforced<br>High-alloy stainless steel                                                                                                                                          |
| Switching status indication                          | LED yellow                                                                                                                                                                           |
| Function reserve indication                          | LED orange                                                                                                                                                                           |
| Ambient temperature with flexible cable installation | -20 °C ... 85 °C                                                                                                                                                                     |
| Degree of protection                                 | IP65<br>IP68<br>IP69K                                                                                                                                                                |