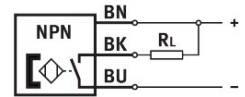
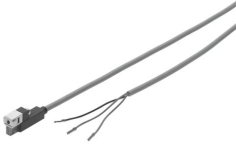


# Proximity sensor SMT-8G-NS-24V-E-2,5Q-OE

Part number: 8065028

FESTO



## Data sheet

| Feature                                      | Value                                                                                                 |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Design                                       | For T-slot                                                                                            |
| Based on norm                                | EN 60947-5-2                                                                                          |
| Certification                                | RCM compliance mark<br>c UL us - Listed (OL)                                                          |
| 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                                                 |
| Certificate issuing authority                | UL E232949                                                                                            |
| Note on materials                            | RoHS compliant                                                                                        |
| Application note                             | <a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a> |
| 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                                                                                          |
| On time                                      | 1 ms                                                                                                  |
| Switch-off time                              | 1 ms                                                                                                  |
| Max. switching frequency                     | 150 Hz                                                                                                |
| Max. output current                          | 100 mA                                                                                                |
| Max. switching capacity DC                   | 2.8 W                                                                                                 |
| Voltage drop                                 | 2 V                                                                                                   |
| Inductive protective circuit                 | Adapted to MZ, MY and ME coils                                                                        |
| Residual current                             | 0.15 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                                                                                                 |

| Feature                                                   | Value                                                                                                                                                                                           |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection 1, connection technology            | Open end                                                                                                                                                                                        |
| Electrical connection 1, number of pins/wires             | 3                                                                                                                                                                                               |
| Connection outlet orientation                             | Transverse                                                                                                                                                                                      |
| Connector cable test conditions                           | Flexural strength: as per Festo standard<br>Test conditions on request<br>Torsion resistance: > 300,000 cycles, $\pm 270^\circ/0.1$ m<br>Energy chain: > 5 million cycles, bending radius 28 mm |
| Cable length                                              | 2.5 m                                                                                                                                                                                           |
| Cable characteristic                                      | suitable for energy chains/robot applications                                                                                                                                                   |
| Color cable sheath                                        | Gray                                                                                                                                                                                            |
| Material of cable sheath                                  | TPE-U(PU)                                                                                                                                                                                       |
| Wire ends                                                 | Wire ferrule                                                                                                                                                                                    |
| Type of mounting                                          | Clamped in T slot<br>Can be inserted in slot lengthwise                                                                                                                                         |
| Max. tightening torque                                    | 0.8 Nm                                                                                                                                                                                          |
| Mounting position                                         | Any                                                                                                                                                                                             |
| Product weight                                            | 30 g                                                                                                                                                                                            |
| Housing colour                                            | Black                                                                                                                                                                                           |
| Housing material                                          | Aluminum<br>PA-reinforced<br>high-alloy stainless steel                                                                                                                                         |
| Switching status indication                               | Yellow LED                                                                                                                                                                                      |
| Ambient temperature with flexible cable installation      | -5 °C...70 °C                                                                                                                                                                                   |
| Degree of protection                                      | IP65<br>IP68                                                                                                                                                                                    |
| LABS (PWIS) conformity                                    | VDMA24364-B2-L                                                                                                                                                                                  |
| Suitability for the production of Li-ion batteries        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)                                                                                                                              |
| Cleanroom suitability, measured according to ISO 14644-14 | Statically installed element, no meaningful evaluation possible according to ISO 14644-1                                                                                                        |