

# Proximity sensor SIES-Q8B-NS-S-L

Part number: 178293

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Conforms to standard                                 | EN 60947-5-2   |
| Symbol   | 00991703   |
| Approval   | RCM<br>c UL us - Listed (Oil)  |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with EU RoHS Directive  |
| UKCA marking (see declaration of conformity)         | according to UK RoHS instructions (UK-R)   |
| Note on materials                                    | RoHS compliant   |
| Rated operating distance                             | 1.5 mm   |
| Assured operating distance                           | 1.2 mm   |
| Reduction factors                                    | Aluminium = 0.45<br>Stainless steel St 18/8 = 0.8<br>Copper = 0.4<br>Brass = 0.55<br>Steel St 37 = 1.0 |
| Ambient temperature                                  | -25 °C ... 70 °C   |
| Repetition accuracy                                  | 0.07 mm  |
| Switching output                                     | NPN  |
| Switching element function                           | N/O contact  |
| Max. switching frequency                             | 3500 Hz  |
| Max. switching frequency DC                          | 1500 Hz  |
| Max. output current                                  | 200 mA   |
| Voltage drop   | 2 V  |
| Short circuit current rating                         | Pulsed   |
| Operational voltage range DC                         | 10 V ... 30 V  |
| Residual ripple                                      | 10%  |
| No-load supply current                               | ≤10 mA   |
| Reverse polarity protection                          | For all electrical connections   |
| Electrical connection 1, connection type             | Plug   |
| Electrical connection 1, connector system            | M8x1, A-coded, to EN 61076-2-104   |
| Electrical connection 1, number of connections/cores | 3  |
| Electrical connection 1, type of mounting            | Not rotatable  |
| Electrical connection 1, compatible type of mounting | Compatible with latching lock<br>Compatible with rotatable screw-type lock                             |
| Size   | 8x8x59 mm  |
| Type of mounting                                     | With female thread   |
| Mounting type  | Flush  |
| Product weight                                       | 12 g   |

| <b>Feature</b>                              | <b>Value</b>                                    |
|---|---|
| Material housing                            | Die-cast zinc<br>Chrome-plated<br>nickel-plated |
| Switching status indication                 | Yellow LED                                      |
| Degree of protection                        | IP67  |
| LABS (PWIS) conformity                      | VDMA24364-B2-L                                  |
| Additional information for sensor selection | Special design                                  |
| Electrical output                           | NPN   |
| Selection of sensor design                  | Standard  |