

# Proximity sensor SIEN-4B-NS-S-L

Part number: 150361

FESTO



General operating condition

## Data sheet

| Feature                                              | Value                                                                                                |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Conforms to standard                                 | EN 60947-5-2                                                                                         |
| Symbol                                               | 00991703                                                                                             |
| Approval                                             | RCM trademark<br>c UL us listed (OL)                                                                 |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with EU RoHS Directive                                          |
| UKCA marking (see declaration of conformity)         | To UK instructions for EMC (UK-E)<br>To UK RoHS instructions (UK-R)                                  |
| Rated operating distance                             | 0.8 mm                                                                                               |
| Assured operating distance                           | 0.64 mm                                                                                              |
| Reduction factors                                    | Aluminium = 0.4<br>Stainless steel St 18/8 = 0.7<br>Copper = 0.3<br>Brass = 0.4<br>Steel St 37 = 1.0 |
| Ambient temperature                                  | -25 °C ... 70 °C                                                                                     |
| Repetition accuracy                                  | 0.04 mm                                                                                              |
| Switching output                                     | NPN                                                                                                  |
| Switching element function                           | N/O contact                                                                                          |
| Max. switching frequency                             | 3000 Hz                                                                                              |
| Max. switching frequency DC                          | 3000 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             | Plugs                                                                                                |
| 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            | Snap-locking<br>Screw-type lock<br>Not rotatable                                                     |
| Electrical connection 1, compatible type of mounting | Compatible with latching lock<br>Compatible with rotatable screw-type lock                           |
| Size                                                 | 4 mm                                                                                                 |
| Type of mounting                                     | Clamped                                                                                              |

| Feature                                     | Value                          |
|---------------------------------------------|--------------------------------|
| Mounting type                               | Flush                          |
| Product weight                              | 9 g                            |
| Material housing                            | High-alloy stainless steel     |
| Switching status indication                 | Yellow LED                     |
| Degree of protection                        | IP67                           |
| LABS (PWIS) conformity                      | VDMA24364-B2-L                 |
| Additional information for sensor selection | with standard sensing distance |
| Electrical output                           | NPN                            |
| Selection of sensor design                  | Standard                       |