

## INDUCTIVE SENSOR - M8

Special mini version: long distance  
Cable connection - PUR cable on request  
Housing length 33 or 45 mm

### TYPE - ART. NO.

SM-10-M8-S-L-D3 - SM109002

SM-10-M8-O-L-D3 - SM112004

SM-20-M8-S-L-D3 - SM209002

### DESCRIPTION

10 = PNP

20 = NPN

M8 = Ø M8x1.5 - shielded

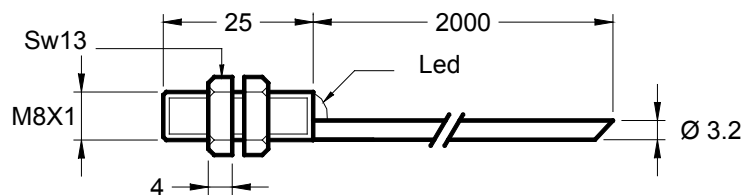
S = normally open

O = normally closed

L = led

D3 = Sn 3mm

### DIMENSIONS AND TECHNICAL DATA



|                               |                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating distance Sn         | 3 mm                                                                                                                                                                                                                                                                                                                                             |
| Flush mounting                | yes, related to the housing                                                                                                                                                                                                                                                                                                                      |
| Electrical version            | 3 wires DC                                                                                                                                                                                                                                                                                                                                       |
| Operating voltage Ub          | 10...35 Vdc                                                                                                                                                                                                                                                                                                                                      |
| Output current Ie             | max. 150mA                                                                                                                                                                                                                                                                                                                                       |
| Voltage drop Ud               | max. ≤ 3.5 V                                                                                                                                                                                                                                                                                                                                     |
| Permitted residual ripple     | max. 5%                                                                                                                                                                                                                                                                                                                                          |
| No load current Io            | tip. 10mA                                                                                                                                                                                                                                                                                                                                        |
| Frequency of operating cycles | max. 1 KHz                                                                                                                                                                                                                                                                                                                                       |
| Hysteresis                    | < 10 %                                                                                                                                                                                                                                                                                                                                           |
| Repeat accuracy               | < 1 %                                                                                                                                                                                                                                                                                                                                            |
| Permitted ambient temperature | -10...+60°C                                                                                                                                                                                                                                                                                                                                      |
| Temperature drift             | < 10 %                                                                                                                                                                                                                                                                                                                                           |
| Led display                   | yellow                                                                                                                                                                                                                                                                                                                                           |
| Protective circuit            | built-in                                                                                                                                                                                                                                                                                                                                         |
| Degree of protection          | (IEC 529) IP 67                                                                                                                                                                                                                                                                                                                                  |
| Housing material              | INOX 303                                                                                                                                                                                                                                                                                                                                         |
| Active surface material       | PVDF                                                                                                                                                                                                                                                                                                                                             |
| Connection                    | cable 2m, PVC, 3x0.14mm <sup>2</sup>                                                                                                                                                                                                                                                                                                             |
| Maximum torque                | 4.5                                                                                                                                                                                                                                                                                                                                              |
| Connection diagrams           | <div> <div>PNP N.O.<br/>C BN/1<br/>BK/4<br/>BU/3</div> <div>PNP N.C.<br/>C BN/1<br/>BK/2<br/>BU/3</div> <div>PNP Antivalent<br/>C BN/1<br/>BK/4<br/>WH/2<br/>BU/3</div> <div>NPN N.O.<br/>C BN/1<br/>BK/4<br/>BU/3</div> <div>NPN N.C.<br/>C BN/1<br/>BK/2<br/>BU/3</div> <div>NPN Antivalent<br/>C BN/1<br/>BK/4<br/>WH/2<br/>BU/3</div> </div> |