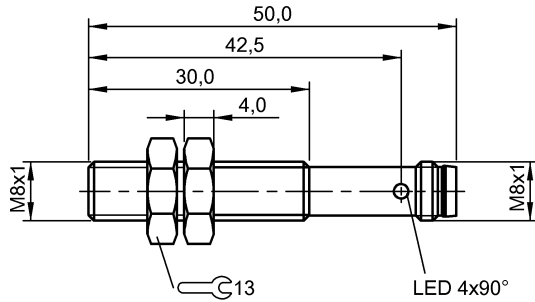


BES M08EE1-PSC20B-S49G-S BES03UY



Display/Operation

| | |
|--------------------|-----|
| Function indicator | yes |
| Power indicator | no |

Electrical connection

| | |
|-----------------------------|------------------------|
| Connection | M8x1-Connector, 3-pole |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|-----------------------------------|-------------|
| Hysteresis H max. (% of Sr) | 20.0 % |
| MTTF (40 °C) | 1985 a |
| No-load current to max., undamped | 20 mA |
| Operating voltage U_b | 10...30 VDC |
| Pollution degree | 3 |
| Protected against miswiring | yes |
| Rated insulation voltage U_i | 60 V DC |
| Rated operating current I_e DC | 100 mA |
| Rated operating voltage U_e DC | 24 V |
| Ready delay t_v max. | 300 ms |
| Repeat accuracy max. (% of Sr) | 10.0 % |
| Residual current I_r max. | 100 μ A |
| Switching frequency | 100 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 2.5 V |

Environmental conditions

| | |
|---------------------------|-------------|
| Ambient temperature | -25...70 °C |
| Protection class | II |
| Protection type IEC 60529 | IP67 |

Functional safety

| | |
|---------------------|-----|
| Diagnostic coverage | 0 % |
| Functional safety | no |
| Mission Time | 0 a |

General data

| | |
|---------------------|--------------------|
| Approval/Conformity | cULus CE EAC |
| Basic standard | IEC 60947-5-2 |

Material

| | |
|--------------------------|--------------------------|
| Housing material | Stainless steel (1.4404) |
| Material sensing surface | Stainless steel (1.4404) |

Mechanical data

| | |
|-----------------------|-------------------------|
| Dimension | \varnothing 8 x 50 mm |
| Installation | for flush mounting |
| Pressure rating max. | 80 bar |
| Pressure rating, note | Pressure-resistant |
| Size | M8x1 |
| Tightening torque | 3.5 Nm \pm 10 % |

Output/Interface

| | |
|------------------|------------------------|
| Switching output | PNP Normally open (NO) |
|------------------|------------------------|

Range/Distance

| | |
|----------------------------------|--------|
| Assured operating distance S_a | 1.6 mm |
| Range | 2 mm |
| Rated operating distance S_n | 2 mm |

BES M08EE1-PSC20B-S49G-S BES03UY

| | |
|----------------------------------|------|
| Ripple max. (% of Ue) | 10 % |
| Switching distance marking | ■ ■ |
| Temperature drift max. (% of Sr) | 10 % |

Remarks

When installing in metal see Installation Instructions 857785.
The sensor is functional again after the overload has been eliminated.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

