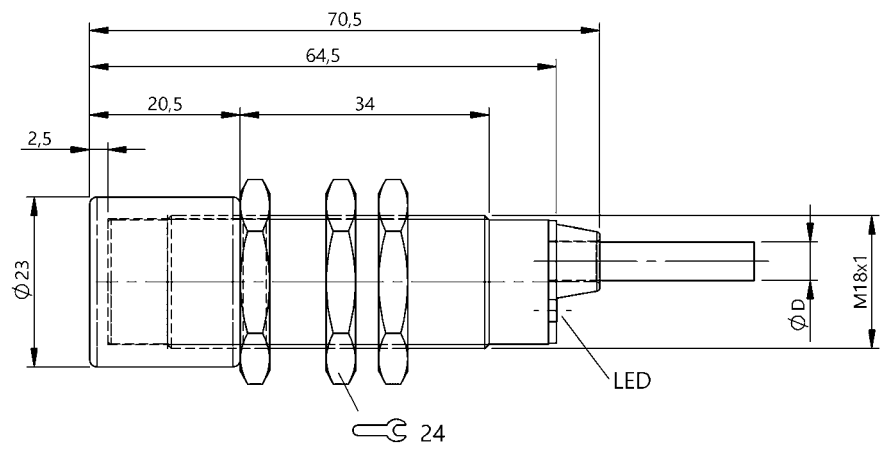


Inductive Sensors  
BES M18MF2-PSC80F-BV02-EXD  
Order Code: BES05L3



Basic features

|                     |                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------|
| Approval/Conformity | CE<br>IECEX<br>ATEX<br>WEEE                                                                                       |
| Basic standard      | EN 60079-0<br>EN 60079-18<br>IEC 60947-5-2                                                                        |
| Ex marking          | ATEX: Ex II 1G Ex ma IIC T6 Ga<br>Ex II 1D Ex ma IIIC T90 °C Da<br>IECEX: Ex ma IIC T6 Ga<br>Ex ma IIIC T90 °C Da |

Electrical connection

|                             |                 |
|-----------------------------|-----------------|
| Cable length L              | 2 m             |
| Conductor cross-section     | 0.34 mm²        |
| Connection type             | Cable, 2 m, PUR |
| Polarity reversal protected | yes             |
| Short-circuit protection    | yes             |

Electrical data

|                                  |             |
|----------------------------------|-------------|
| Operating voltage U <sub>b</sub> | 18...27 VDC |
| Switching frequency              | 300 Hz      |

Environmental conditions

|                     |             |
|---------------------|-------------|
| Ambient temperature | -20...60 °C |
| IP rating           | IP67        |

Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 715 a |
|--------------|-------|

Interface

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

Material

|                          |                      |
|--------------------------|----------------------|
| Housing material         | Brass, nickel-plated |
| Material jacket          | PUR                  |
| Material sensing surface | PA/POM               |

Mechanical data

|                   |              |
|-------------------|--------------|
| Dimension         | Ø 18 x 69 mm |
| Installation      | non-flush    |
| Mounting length   | 34.00 mm     |
| Size              | M18x1        |
| Tightening torque | 25 Nm        |

Range/Distance

|                                         |        |
|-----------------------------------------|--------|
| Rated operating distance S <sub>n</sub> | 5.5 mm |
|-----------------------------------------|--------|

## Wiring Diagrams

