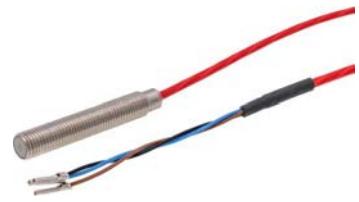


**IB0801KO****Inductive sensors • atmospheric-change resistant**

Sensor Inductive, M8x1 53lang, non-flush, Sn: 2, 10-30V DC, 0-120°C, PNP NO, cable 2m FEP, IP68, V4A

including 2x Nut



**Temperature resistant up to +120°C**

**Climate change resistant**

Inductive proximity switches are contactless sensors. They detect all conductive metals, regardless of whether they are moving or not. The achievable switching distance of the devices depends on the object material and its dimensions. The vibration-insensitive sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. product carriers), positioning (e.g. oven doors), counting (e.g. nuts / screws), speed detection (e.g. on gear wheels), on conveyor systems (e.g. hose feeders) or distance measurements (e.g. press-fit control) of metallic objects.

**Electrical features**

|                                   |                            |
|-----------------------------------|----------------------------|
| Display                           | LED display                |
| Type of switching function        | Normally open contact (NO) |
| Type of electrical connection     | Cable                      |
| Type of switching output          | PNP                        |
| Rated switching current           | 100mA                      |
| Relative hysteresis               | 10%                        |
| Correction factor (aluminum)      | 0.25                       |
| Correction factor (copper)        | 0.17                       |
| Correction factor (brass)         | 0.32                       |
| Correction factor (St37)          | 1                          |
| Correction factor (stainl. steel) | 0.63                       |
| Short-circuit protection          | Yes                        |
| No-load current                   | 3mA                        |
| Relative repeat accuracy          | 3%                         |
| Residual ripple                   | 10%                        |
| Switching distance                | 2mm                        |
| Switching frequency               | 1500Hz                     |
| Voltage drop                      | 3.5V                       |
| Reverse polarity protection       | Yes                        |
| Operating voltage (DC)            | 10 - 30V                   |

**Mechanical features**

|  |                        |
|--|------------------------|
| Number of cores                                  | 3                      |
| Conductor cross-section                          | 0.14mm <sup>2</sup>    |
| Alignment of cable entry                         | axial                  |
| Design   | Cylinder, screw-thread |
| Pressure resistance                              | 3bar                   |
| Thread length                                    | 45mm                   |
| Thread pitch                                     | 1mm                    |
| Cable length                                     | 2m                     |
| Cable infeed                                     | axial                  |
| Length   | 53mm                   |
| Mechanical mounting condition for sensor         | flush                  |
| Degree of protection (IP)                        | IP68                   |
| Active area material of sensor                   | Plastic (PEEK)         |
| Housing material                                 | Stainless steel 1.4571 |
| Material of cable sheath                         | Plastic (FEP)          |
| Atmospheric-change resistant (temperature cycle) | Yes                    |
| Thread dimension                                 | M8                     |
| Ambient temperature                              | 0 - 120°C              |

**Other features**

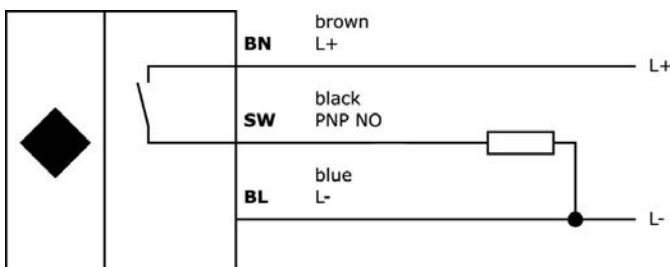
|                            |  |
|----------------------------|--|
| Oil and cooling lubricants | Yes                                    |
| Reference medium / object  | Standard measuring plate FE360 8x8x1mm |
| Ambient temperature        | 0 - 120°C                              |

**Classification**

|        |                                     |
|--------|-------------------------------------|
| ETIM 8 | EC002714 Inductive proximity switch |
|--------|-------------------------------------|

**More**

|                       |   |
|-----------------------|---|
| IPF Product Group     | 212 inductive sensors (unaffected by atmospheric changes) |
| packaging dimensions  | 149 x 124 x 28 mm   |
| gross weight          | 75 g  |
| Customs tariff number | 85365019  |
| WEEE number           | 40951076  |
| Reach-compliant       | Yes   |
| RoHS-compliant        | Yes   |

**Connection**

**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal****Safety warnings**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these devices in applications where the safety of a person depends on their functionality.

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

**Dimensional drawing**