

## IB991300

### Inductive sensors • Norm switching distance

sensor inductive, M12x1 56long, Flush, Sn: 3, 10-35V DC, -40-150°C, PNP NO, Cable 2m Silicone, IP65, Stainless steel 1.4305

including 2x Nut



Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive proximity switches are used for presence detection (e.g. goods carriers), positioning (e.g. dampers), counting (e.g. nuts /bolts), speed detection (e.g. for cog wheels), on conveyor systems (e.g. hose feedings) or distance measurements (e.g. press-in checking) of metallic objects.

#### Electrical features

|                               |                            |
|-------------------------------|----------------------------|
| Type of switching function    | Normally open contact (NO) |
| Type of electrical connection | Cable                      |
| Type of switching output      | PNP                        |
| Rated switching current       | 120mA                      |
| Relative hysteresis           | 20%                        |
| Short-circuit protection      | Yes                        |
| No-load current               | 15mA                       |
| Line diameter                 | 4.6mm                      |
| Switching distance            | 3mm                        |
| Switching frequency           | 500Hz                      |
| Reverse polarity protection   | Yes                        |
| Operating voltage (DC)        | 10 - 35V                   |

#### Mechanical features

|                                          |                        |
|------------------------------------------|------------------------|
| Alignment of cable entry                 | axial                  |
| Design                                   | Cylinder, screw-thread |
| Thread pitch                             | 1mm                    |
| Cable length                             | 2m                     |
| Cable infeed                             | axial                  |
| Length                                   | 56mm                   |
| Mechanical mounting condition for sensor | flush                  |
| Degree of protection (IP)                | IP65                   |
| Active area material of sensor           | Plastic (Vectra®)      |
| Housing material                         | Stainless steel 1.4305 |
| Material of cable sheath                 | Silicone               |
| Thread dimension                         | M12                    |
| Ambient temperature                      | -40 - 150°C            |

## Other features

|                           |                                          |
|---------------------------|------------------------------------------|
| Reference medium / object | Standard measuring plate FE360 12x12x1mm |
| Ambient temperature       | -40 - 150°C                              |

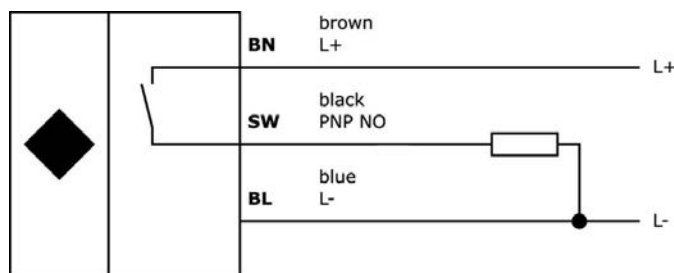
## Classification

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

## More

|                       |                                          |
|-----------------------|------------------------------------------|
| IPF Product Group     | 202 inductive sensors (high temperature) |
| packaging dimensions  | 123 x 77 x 25 mm                         |
| gross weight          | 100 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).