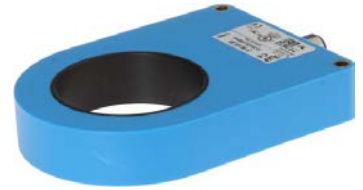


## IY500320

### Inductive sensors • Ring sensors

sensor inductive, 20x121x80mm, ring 51, 10-35V DC, PNP NC/NO, Connector M12 3pin, IP67, Polyamide, Static



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

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| Response/decay time              | 1ms                                           |
| Display                          | LED display                                   |
| Type of switching function       | Normally closed contact/normally open contact |
| Type of electrical connection    | Connector M12                                 |
| Type of switching output         | PNP                                           |
| Rated switching current          | 200mA                                         |
| Setting procedure                | Potentiometer                                 |
| Pulse stretching                 | 10 - 150ms                                    |
| No-load current                  | 11mA                                          |
| Max. parts speed                 | 25m/s                                         |
| Number of pins                   | 3                                             |
| Switching behavior of the output | Static                                        |
| Voltage drop                     | 2V                                            |
| Reverse polarity protection      | Yes                                           |
| Decay time                       | 10ms                                          |
| Operating voltage (DC)           | 10 - 35V                                      |
| Output functions                 | Switching point                               |

## Mechanical features

|                                          |               |
|------------------------------------------|---------------|
| Design                                   | Ring-shaped   |
| Width                                    | 80mm          |
| Height                                   | 20mm          |
| Cable infeed                             | axial         |
| Length                                   | 121mm         |
| Mechanical mounting condition for sensor | non-flush     |
| Ring diameter                            | 51mm          |
| Degree of protection (IP)                | IP67          |
| Active area material of sensor           | Plastic (POM) |
| Housing material                         | Polyamide PA  |
| Ambient temperature                      | -25 - 70°C    |

## Optical features

|                    |     |
|--------------------|-----|
| Resolution, static | 6mm |
| Min. object size   | 6mm |

## Other features

|                           |            |
|---------------------------|------------|
| Feeding technology        | Yes        |
| Reference medium / object | Steel ball |
| Ambient temperature       | -25 - 70°C |

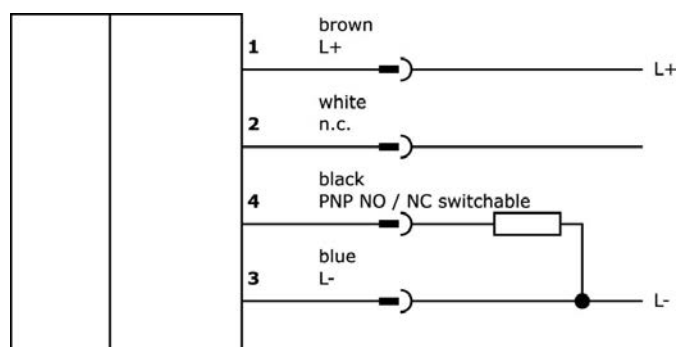
## Classification

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

## More

|                       |                                   |
|-----------------------|-----------------------------------|
| IPF Product Group     | 211 inductive sensors (ring/hose) |
| packaging dimensions  | 160 x 99 x 60 mm                  |
| gross weight          | 240 g                             |
| Customs tariff number | 85365019                          |
| WEEE number           | 40951076                          |
| POP-compliant         | Yes                               |
| 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

