

## IB08A829

### INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

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.



#### MECHANICAL DATA

|  |                        |
|--|------------------------|
| Active area material of sensor           | PA 6.6 (synthetic)     |
| Ambient temperature (MAX)                | 70 °C                  |
| Ambient temperature (MIN)                | -25 °C                 |
| Degree of protection (IP)                | IP67                   |
| Housing design                           | Cylinder, screw-thread |
| Housing material                         | Stainless steel 1.4404 |
| Mechanical mounting condition for sensor | Flush                  |
| Pressure-proof                           | No                     |
| Sensor length                            | 40 mm                  |
| Thread pitch                             | 1 mm                   |
| Thread size, metric                      | 8                      |

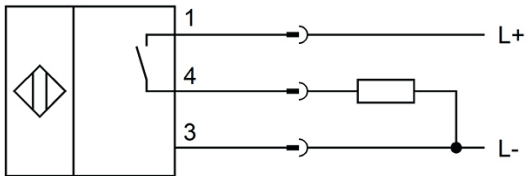
#### ELECTRICAL DATA

|                               |              |
|-------------------------------|--------------|
| Cascadable                    | No           |
| Hysteresis                    | 10 %         |
| Magnetic field resistant      | Yes          |
| Max. output current           | 200 mA       |
| No-load current               | 10 mA        |
| Norm measuring plate          | 8x8x1        |
| Number of pins                | 3            |
| Readiness delay               | 32 ms        |
| Relative repeat accuracy      | 5 %          |
| Residual ripple               | 20 %         |
| Reverse polarity protection   | Yes          |
| Short-circuit-proof           | Yes          |
| Suitable for safety functions | No           |
| Supply voltage (MAX)          | 30 V         |
| Supply voltage (MIN)          | 10 V         |
| Switching distance            | 2 mm         |
| Switching frequency           | 5000 Hz      |
| Type of electrical connection | Connector M8 |

## ELECTRICAL DATA

|  |                       |
|--|-----------------------|
| Type of switching function                     | Normally open contact |
| Type of switching output                       | PNP                   |
| Voltage drop                                   | 2 V                   |
| Voltage type                                   | DC                    |
| With LED display                               | Yes                   |
| With monitoring function of downstream devices | No                    |

## CONNECTION



**Colors:** 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

**Functions:** 1 = L+, 3 = L-, 4 = PNP NO

## DIMENSIONAL DRAWING

### 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.