

**IB990101****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.

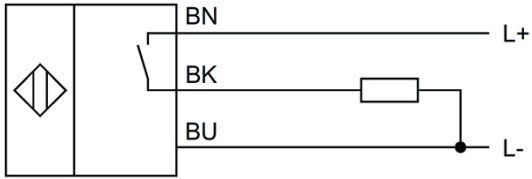
**MECHANICAL DATA**

Active area material of sensor	PA 6.6 (synthetic)
Ambient temperature	-10 °C ... 70 °C
Cable length	3 m
Degree of protection (IP)	IP67
Housing coating	Nickel-plated
Housing design	Cylinder plain
Housing material	Brass
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor diameter	10 mm
Sensor length	12 mm

**ELECTRICAL DATA**

Cascadable	No
Hysteresis	2 %
IO-Link compatible	No
Max. output current	2.1 mA
Relative repeat accuracy	0.3 %
Suitable for safety functions	No
Switching distance	3 mm
Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage type	DC
With monitoring function of downstream devices	No

## CONNECTION



**Colors:** BN (brown), BU (blue), BK (black)

**Functions:** BN = L+, BU = L-, BK = 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!