

## IB300280

### INDUCTIVE SENSORS • ENLARGED AMBIENT TEMPERATURE

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	PTFE
Cable length	2 m
Degree of protection (IP)	IP69K
Housing design	Cylinder, screw-thread
Housing material	PTFE
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	PTFE
Mechanical mounting condition for sensor	Flush
Number of wires	3
Pressure-proof	No
Sensor length	91 mm
Teflon housing	Yes
Thread pitch	1.5 mm
Thread size, metric	30
Wire cross section	0.34 mm <sup>2</sup>

#### ELECTRICAL DATA

Cascadable	No
Max. output current	200 mA
No-load current	4 mA
Norm measuring plate	30x30x1
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	10 mm
Switching frequency	100 Hz
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP

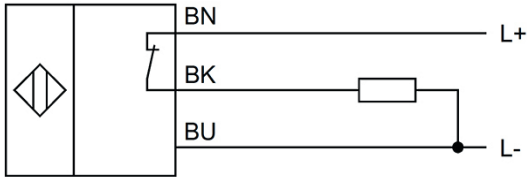
## ELECTRICAL DATA

Voltage drop	1 V
Voltage type	DC
With monitoring function of downstream devices	No

## OTHER DATA

Hygienic and wet area	Yes
Oil and cooling lubricants	Yes

## CONNECTION



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

**Functions:** BN = L+, BU = L-, BK = PNP NC

## 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.