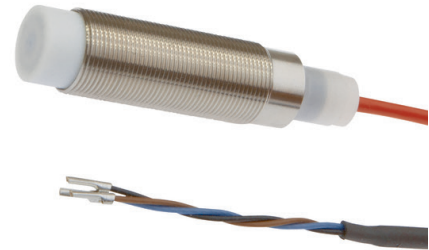


**IN18A584**

**INDUCTIVE SENSORS • ATMOSPHERIC-CHANGE RESISTANT**

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
Ambient temperature (MAX)	60 °C
Ambient temperature (MIN)	-55 °C
Ambient temperatures < -25°C	Yes
Cable length	2 m
Degree of protection (IP)	IP69K
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4571
Material of cable sheath	FEP
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	75 mm
Thread length	35 mm
Thread pitch	1 mm
Thread size, metric	18
Wire cross section	0.75 mm <sup>2</sup>

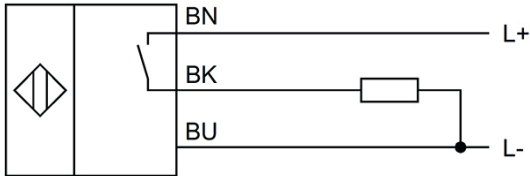
**ELECTRICAL DATA**

Cascadable	No
Max. output current	200 mA
No-load current	4 mA
Norm measuring plate	18x18x1
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage (MAX)	33 V
Supply voltage (MIN)	10 V
Switching distance	7 mm
Switching frequency	1000 Hz
Type of electrical connection	Cable
Type of switching function	Normally open contact

## ELECTRICAL DATA

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:** 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!

Never use these devices in applications where the safety of a person depends on their functionality.