

## IN121106

### INDUCTIVE SENSORS • ENLARGED 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	PBTP
Ambient temperature	-25 °C ... 70 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing coating	Chromium-plated
Housing design	Cylinder, screw-thread
Housing material	Brass
Material of cable sheath	PUR (Polyurethane)
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	50 mm
Thread length	44 mm
Thread pitch	1 mm
Thread size, metric	12

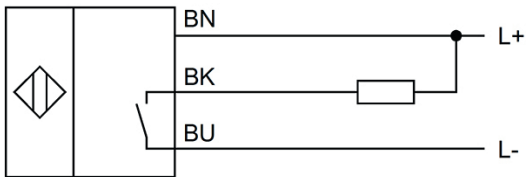
#### ELECTRICAL DATA

Cascadable	No
Correction factor (aluminum)	0.4
Correction factor (brass)	0.56
Correction factor (copper)	0.45
Correction factor (St37)	1
Correction factor (stainl. steel)	0.77
Hysteresis	10 %
IO-Link compatible	No
Max. output current	200 mA
No-load current	15 mA
Norm measuring plate	30x30x1
Relative repeat accuracy	3 %
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No

## ELECTRICAL DATA

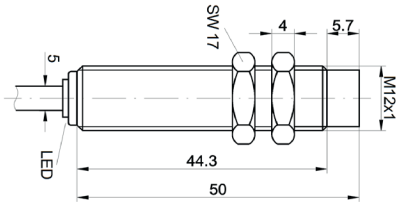
Supply voltage	10 V ... 30 V
Switching distance	10 mm
Switching frequency	400 Hz
Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	NPN
Voltage drop	2 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

## CONNECTION



**Colors:** BN (brown), BU (blue), BK (black)  
**Functions:** BN = L+, BU = L-, BK = NPN 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!

