

## IN800005

### INDUCTIVE SENSORS • DISTANCE MEASUREMENT

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

Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing coating	Nickel-plated
Housing design	Cylinder plain
Housing material	Brass
Mechanical mounting condition for sensor	Flush
Sensor diameter	80 mm
Sensor length	40 mm

#### ELECTRICAL DATA

Absolute repeat accuracy	1 mm
Distance measuring sensors	Yes
Limiting frequency	500 Hz
Measuring range length	0 mm ... 30 mm
Number of pins	4
Operating voltage	18 V ... 27 V
Supply voltage	18 V ... 27 V
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Connector M12
Voltage type	DC

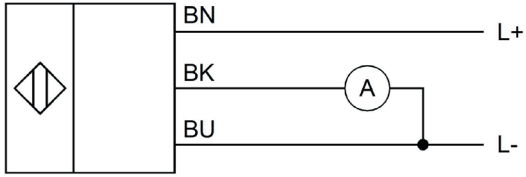
#### OPTICAL DATA

Resolution	0.05 µm
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#### OTHER DATA

Relative linearity deviation	5 %
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## CONNECTION



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

**Functions:** BN = L+, BU = L-, BK = 4-20mA

## 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!