

## IB18A871

### 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	-10 °C ... 60 °C
Degree of protection (IP)	IP67
Housing coating	Chromium-plated
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Mechanical mounting condition for sensor	Quasi-flat
Sensor length	31.5 mm
Thread pitch	1 mm
Thread size, metric	18

#### ELECTRICAL DATA

Distance measuring sensors	Yes
Measuring range length	2 mm ... 4 mm
No-load current	25 mA
Operating voltage	15 V ... 30 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Supply voltage	15 V ... 30 V
Type of analog output	1 ... 9V
Type of electrical connection	M5-connector
Voltage type	DC

#### OPTICAL DATA

Resolution	5 µm
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### DIMENSIONAL DRAWING

### INSTALLATION

### DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!