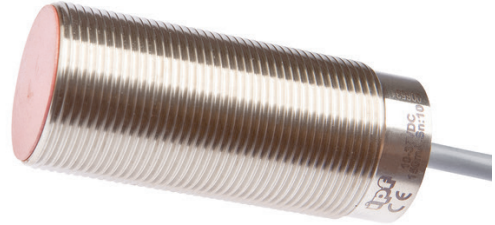


**IB300250**

**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	Vectra®
Ambient temperature (MAX)	180 °C
Cable length	2 m
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	Silicone
Mechanical mounting condition for sensor	Flush
Number of wires	3
Pressure-proof	No
Sensor length	70 mm
Thread pitch	1.5 mm
Thread size, metric	30
Wire cross section	0.25 mm <sup>2</sup>

**ELECTRICAL DATA**

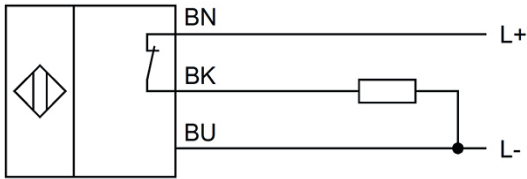
Cascadable	No
Max. output current	100 mA
Readiness delay	6 ms
Relative repeat accuracy	3 %
Residual ripple	10 %
Response time	2.5 ms
Suitable for safety functions	No
Supply voltage (MAX)	35 V
Supply voltage (MIN)	10 V
Switching distance	10 mm
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP
Voltage type	DC

**ELECTRICAL DATA**

With monitoring function of downstream devices

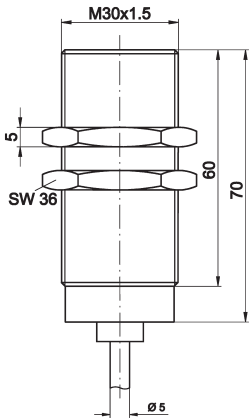
No

**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.