

## IN180250

### 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

Ambient temperature (MAX)	180 °C
Cable length	2 m
Degree of protection (IP)	IP50
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	Silicone
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	78 mm
Thread pitch	1 mm
Thread size, metric	18
Wire cross section	0.25 mm <sup>2</sup>

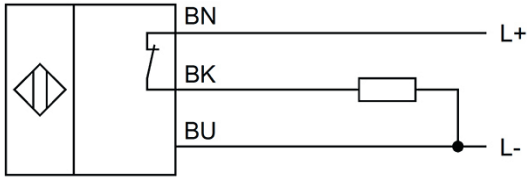
#### ELECTRICAL DATA

Cascadable	No
Max. output current	150 mA
Readiness delay	5 ms
Relative repeat accuracy	3 %
Residual ripple	10 %
Response time	1.2 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage (MAX)	35 V
Supply voltage (MIN)	10 V
Switching distance	8 mm
Switching frequency	200 Hz
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP

**ELECTRICAL DATA**

Voltage drop	2 V
Voltage type	DC
With monitoring function of downstream devices	No

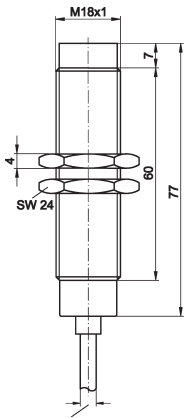
**CONNECTION**



**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.