

IB991124

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	PBT
Ambient temperature (MAX)	120 °C
Ambient temperature (MIN)	-25 °C
Cable length	3 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	Teflon
Mechanical mounting condition for sensor	Flush
Number of wires	3
Pressure-proof	No
Sensor length	55.5 mm
Thread length	55.5 mm
Thread pitch	1 mm
Thread size, metric	8

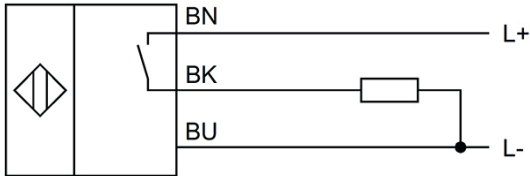
ELECTRICAL DATA

Cascadable	No
Max. output current	200 mA
No-load current	20 mA
Norm measuring plate	8x8x1
Readiness delay	10 ms
Residual ripple	10 %
Reverse polarity protection	Yes
Suitable for safety functions	No
Supply voltage (MAX)	30 V
Supply voltage (MIN)	10 V
Switching distance	2 mm
Switching frequency	1500 Hz
Type of electrical connection	Cable

ELECTRICAL DATA

Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	1.5 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 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!

Never use these devices in applications where the safety of a person depends on their functionality.