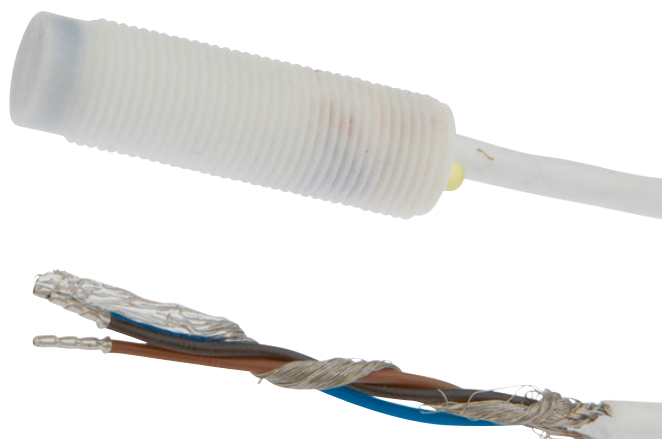


IN12E010

INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

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	PTFE
Ambient temperature (MAX)	100 °C
Ambient temperature (MIN)	-25 °C
Cable length	5 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	PTFE
Material of cable sheath	PTFE
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure-proof	No
Sensor diameter	12 mm
Sensor length	40 mm
Teflon housing	Yes
Thread length	35 mm
Thread pitch	1 mm
Thread size, metric	12
Wire cross section	0.22 mm ²

ELECTRICAL DATA

Cascadable	No
Decay time	0.25 ms
Max. output current	150 mA
No-load current	15 mA
Norm measuring plate	12x12x1
Response time	0.25 ms
Suitable for safety functions	No
Supply voltage (MAX)	35 V
Supply voltage (MIN)	10 V
Switching distance	4 mm
Switching frequency	2000 Hz

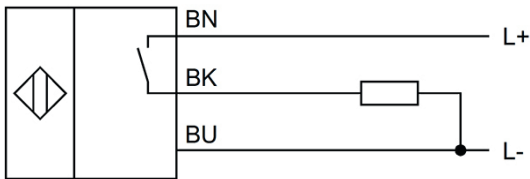
ELECTRICAL DATA

Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2.5 V
Voltage type	DC
With monitoring function of downstream devices	No

OTHER DATA

Hygienic and wet area	Yes
Oil and cooling lubricants	Yes

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.