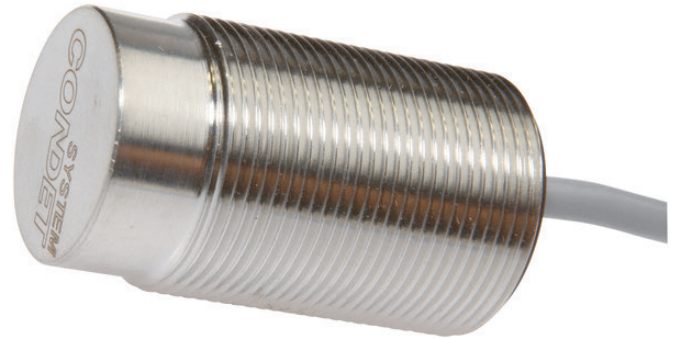


**IO30C766**

**INDUCTIVE SENSORS • FULL-METAL HOUSING**

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	Stainless steel 1.4305
Ambient temperature	-25 °C ... 85 °C
Cable length	10 m
Degree of protection (IP)	IP68
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Material independent sensors (factor 1)	Yes
Material of cable sheath	PUR (Polyurethane)
Material thickness	1 mm
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure resistance	40 bar
Pressure-proof	No
Sensor length	50 mm
Thread length	40 mm
Thread pitch	1.5 mm
Thread size, metric	30
Wire cross section	0.34 mm <sup>2</sup>

**ELECTRICAL DATA**

Cascadable	No
Correction factor (aluminum)	1
Correction factor (brass)	1.2
Correction factor (copper)	0.9
Correction factor (St37)	1
Correction factor (stainless steel V2A: 2mm)	0.2
Hysteresis	15 %
IO-Link compatible	No
Max. line length	300 m
Max. output current	200 mA
No-load current	10 mA

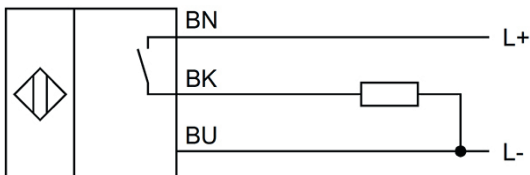
## ELECTRICAL DATA

Norm measuring plate	120x120x1
Relative repeat accuracy	5 %
Residual ripple	20 %
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 30 V
Switching distance	40 mm
Switching frequency	90 Hz
Type of electrical connection	Cable
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	Yes
With LED display (functional reserve)	Yes
With monitoring function of downstream devices	No

## OTHER DATA

Feeding technology	Yes
Harsh environmental conditions	Yes
Hygienic and wet area	Yes
Metallic sensor surface	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!

