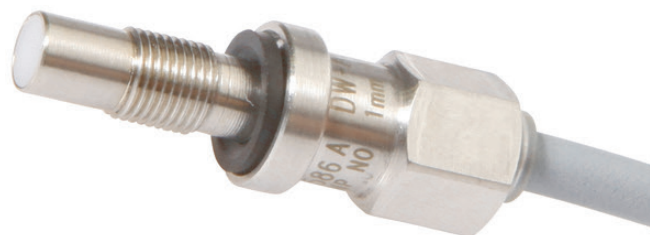


IP050100

INDUCTIVE SENSORS • PRESSURE RESISTANT

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	Zirconium dioxide
Ambient temperature	-25 °C ... 80 °C
Cable length	2 m
Degree of protection (IP)	IP68
High-pressure-proof sensors	Yes
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4301
Material of cable sheath	PUR (Polyurethane)
Max. operating pressure	500 bar
Mechanical mounting condition for sensor	Flush
Number of wires	3
Pressure-proof	Yes
Sensor length	27 mm
Thread length	27 mm
Thread pitch	0.5 mm
Thread size, metric	5

ELECTRICAL DATA

Cascadable	No
Hysteresis	8 %
IO-Link compatible	No
Max. output current	200 mA
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	1 mm
Switching frequency	600 Hz
Type of electrical connection	Cable

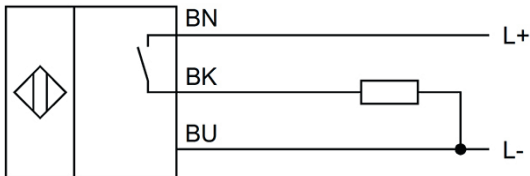
ELECTRICAL DATA

Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With monitoring function of downstream devices	No

OTHER DATA

End position sensing, hydraulic cylinder	Yes
Metallic sensor surface	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!