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.
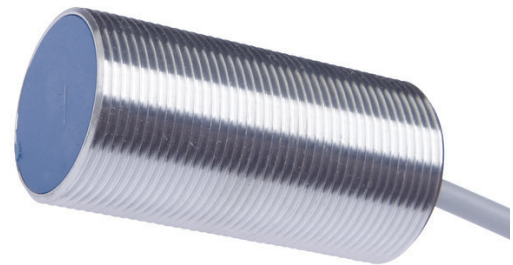
TECHNICAL DATA

Devices for hose mounting	NO
Feeding technology	NO
Harsh environmental conditions	NO
Hygienic and wet area	NO
Metallic sensor surface	NO
Oil and cooling lubricants	NO
Ring-shaped sensors	NO
Welding-proof sensors	NO
Ambient temperature (min/max)	-25 °C / 70 °C
Atmospheric-change resistant (temperature cycle)	NO
Cable length	2 m
Degree of protection (IP)	IP67
High-pressure-proof sensors	NO
Housing coating	Chromium-plated
Housing design	Cylinder, screw-thread
Housing material	Brass
Increased ambient temperatures > 80°C	NO
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Not flat
Number of wires	3
Sensor length	60 mm
Thread pitch	1.5 mm
Thread size, metric	30
Distance measuring sensors	YES
Increased switching distance	NO
Load resistance (current output)	0.4 kOhm
Magnetic field resistant	NO
Measuring range length (min/max)	0 mm / 20 mm
Operating voltage (min/max)	15 V / 30 V
Reverse polarity protection	NO
Short-circuit-proof	NO

IB300006

inductive sensors (analog)

TECHNICAL DATA

Supply voltage (min/max)	15 V / 30 V
Type of analog output	0 V ... 10 V / 4 mA ... 20 mA
Type of electrical connection	Cable
Voltage type	DC

CONNECTION

BN — L+
WH — A
BK — V
BU — L-
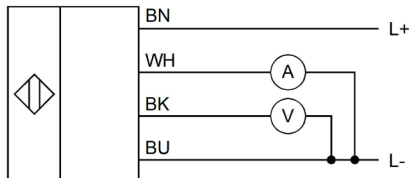
Colors: BN (brown), WH (white), BU (blue), BK (black)
Functions: BN = L+, WH = 4-20mA, BU = L-, BK = 0-10V

DIMENSIONAL DRAWING

M30x1,5
SW 36
60
5
5