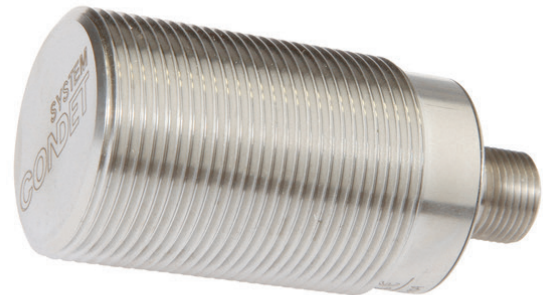


Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive 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.

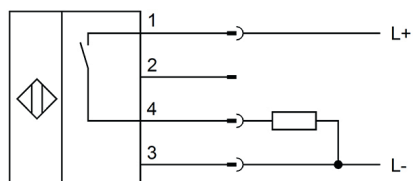


# TECHNICAL DATA

Devices for hose mounting	NO
Feeding technology	YES
Harsh environmental conditions	YES
Hygienic and wet area	YES
Metallic sensor surface	YES
Oil and cooling lubricants	YES
Ring-shaped sensors	NO
Welding-proof sensors	NO
Active area material of sensor	Stainless steel 1.4301
Ambient temperature (min/max)	-25 °C / 70 °C
Ambient temperatures < -25°C	NO
Atmospheric-change resistant (temperature cycle)	NO
Degree of protection (IP)	IP67
High-pressure-proof sensors	NO
Housing design	Cylinder, screw-thread
Housing material	Metal
Housing material	Stainless steel 1.4301
Increased ambient temperatures > 80°C	NO
Material independent sensors (factor 1)	YES
Material thickness	1 mm
Mechanical mounting condition for sensor	Concise
Pressure resistance	40 bar
Pressure-proof	YES
Sensor length	63.5 mm
Teflon housing	NO
Thread length	42 mm
Thread pitch	1.5 mm
Thread size, metric	30
2x increased switching distance	NO
3x increased switching distance	YES
4x increased switching distance	NO

**TECHNICAL DATA**

Cascadable	NO
Connection to amplifier	NO
Correction factor (aluminum)	1
Correction factor (brass)	1.3
Correction factor (copper)	0.9
Correction factor (steel)	1
Distance measuring sensors	NO
Hysteresis	15 %
Increased switching distance	NO
Max. line length	300 m
Max. output current	200 mA
No-load current	10 mA
Norm measuring plate	60x60x1
Number of pins	4
Rated control supply voltage $U_s$ at DC (min/max)	10 V / 30 V
Relative repeat accuracy	5 %
Reverse polarity protection	YES
Short-circuit-proof	YES
Suitable for safety functions	NO
Supply voltage (min/max)	10 V / 30 V
Switching distance	20 mm
Switching frequency	100 Hz
Type of electrical connection	Connector M12
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
Areas inquiry	NO
End position sensing, hydraulic cylinder	NO
Welding area	NO

**CONNECTION**


**Colors:** 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

**Functions:** 1 = L+, 2 = n. c., 3 = L-, 4 = PNP NO

**DIMENSIONAL DRAWING**
