

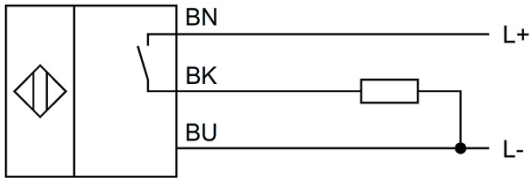
Inductive proximity switches are contact-free sensors. They detect all conductive metals, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material and its dimensions. The vibration-resistant sensors can be approached laterally or frontally. Inductive 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
Active area material of sensor	Vectra®
Ambient temperature (min/max)	0 °C / 180 °C
Ambient temperatures < -25°C	NO
Atmospheric-change resistant (temperature cycle)	NO
Cable length	10 m
Degree of protection (IP)	IP50
High-pressure-proof sensors	NO
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Housing material	Metal
Increased ambient temperatures > 80°C	YES
Material independent sensors (factor 1)	NO
Material of cable sheath	Silicone
Mechanical mounting condition for sensor	Concise
Number of wires	3
Pressure-proof	NO
Sensor length	70 mm
Teflon housing	NO
Thread length	60 mm
Thread pitch	1 mm
Thread size, metric	18
Wire cross section	0.25 mm <sup>2</sup>
2x increased switching distance	NO

**TECHNICAL DATA**

3x increased switching distance	NO
4x increased switching distance	NO
Cascadable	NO
Connection to amplifier	NO
Correction factor (aluminum)	0.3
Correction factor (brass)	0.4
Correction factor (copper)	0.2
Correction factor (stainless steel)	0.7
Correction factor (steel)	1
Distance measuring sensors	NO
Hysteresis	15 %
Increased switching distance	NO
Max. output current	150 mA
No-load current	15 mA
Norm measuring plate	18x18x1
Rated control supply voltage $U_s$ at DC (min/max)	10 V / 35 V
Readiness delay	5 ms
Relative repeat accuracy	3 %
Residual ripple	10 %
Response time	1.2 ms
Reverse polarity protection	YES
Short-circuit-proof	YES
Suitable for safety functions	NO
Supply voltage (min/max)	10 V / 35 V
Switching distance	5 mm
Switching frequency	400 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	NO
With monitoring function of downstream devices	NO
Areas inquiry	NO
End position sensing, hydraulic cylinder	NO
Welding area	NO

**CONNECTION**

**Colors:** BN (brown), BU (blue), BK (black)

**Functions:** BN = L+, BU = L-, BK = PNP NO

**DIMENSIONAL DRAWING**