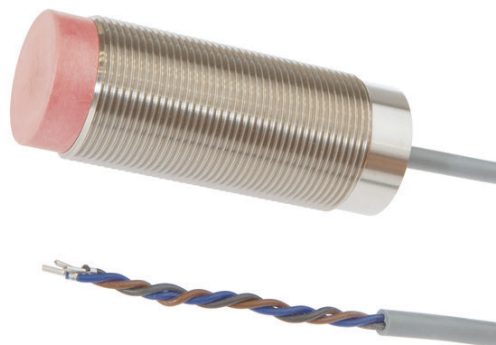


IN300155

INDUCTIVE SENSORS • ENLARGED AMBIENT TEMPERATURE

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	Vectra®
Ambient temperature (MAX)	130 °C
Cable length	2 m
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	Silicone
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure-proof	No
Sensor length	79 mm
Thread length	60 mm
Thread pitch	1.5 mm
Thread size, metric	30
Wire cross section	0.25 mm ²

ELECTRICAL DATA

Cascadable	No
Correction factor (aluminum)	0.3
Correction factor (brass)	0.4
Correction factor (copper)	0.2
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Hysteresis	15 %
Max. output current	150 mA
No-load current	15 mA
Norm measuring plate	30x30x1
Readiness delay	6 ms
Relative repeat accuracy	3 %
Residual ripple	10 %

information!

Never use these devices in applications where the safety of a person depends on their functionality.