

IC220120

INDUCTIVE SENSORS • FULL-METAL HOUSING

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	Stainless steel 1.4305
Ambient temperature	-25 °C ... 100 °C
Degree of protection (IP)	IP65
Housing design	Cuboid
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	Yes
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor height	40 mm
Sensor length	46 mm
Sensor width	22 mm

ELECTRICAL DATA

Cascadable	No
Correction factor (St37)	1
Correction factor (stainl. steel)	0.25
Hysteresis	15 %
IO-Link compatible	No
Max. output current	300 mA
No-load current	15 mA
Number of pins	3
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 30 V
Switching distance	2 mm
Switching frequency	25 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V

