

IN34C997

INDUCTIVE SENSORS • NORM SWITCHING DISTANCE

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

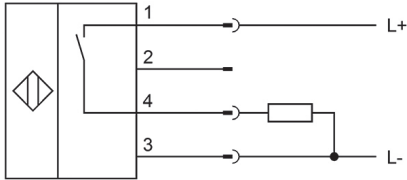
Active area material of sensor	PA 6.6 (synthetic)
Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	PA 6.6 (synthetic)
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor diameter	34 mm
Sensor length	85 mm

ELECTRICAL DATA

Cascadable	No
Correction factor (aluminum)	0.4
Correction factor (brass)	0.4
Correction factor (copper)	0.3
Correction factor (St37)	1
Correction factor (stainl. steel)	0.7
Hysteresis	10 %
IO-Link compatible	No
Max. output current	200 mA
No-load current	10 mA
Number of pins	4
Relative repeat accuracy	5 %
Reverse polarity protection	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 30 V
Switching distance	20 mm
Switching frequency	10 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally open contact
Type of switching output	PNP

ELECTRICAL DATA

Voltage drop	2.5 V
Voltage type	DC
With monitoring function of downstream devices	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**INSTALLATION**

Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL**SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!