

## IN400420

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	PBT
Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing design	Cuboid
Housing material	PBT
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor height	40 mm
Sensor length	118 mm
Sensor width	40 mm

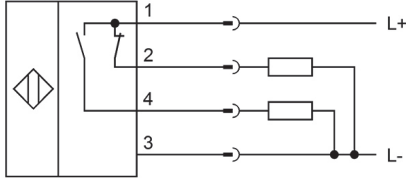
### ELECTRICAL DATA

Cascadable	No
Correction factor (aluminum)	0.4
Correction factor (copper)	0.4
Correction factor (St37)	1
Correction factor (stainl. steel)	0.8
Hysteresis	5 %
IO-Link compatible	No
Max. output current	200 mA
No-load current	10 mA
Number of pins	4
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 30 V
Switching distance	30 mm
Switching frequency	100 Hz
Type of electrical connection	Connector M12
Type of switching function	Anticoincidence
Type of switching output	PNP

## ELECTRICAL DATA

Voltage drop	2.8 V
Voltage type	DC
With LED display	Yes
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 = PNP NC, 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!