

IBQ50174

Inductive sensors • Norm switching distance

sensor inductive, 25x5x5mm, Flush, Sn: 0.8, 10-30V DC, PNP NO, IO-Link, Cable connector M8 3pin 0.15m PUR (Polyurethane), IP67, Brass Chrome-plated

including Screw



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.

Electrical features

Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	200 mA
Relative hysteresis	10 %
Short-circuit protection	Yes
No-load current	10 mA
Number of pins	3
Switching distance	0,8 mm
Switching frequency	5000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Supported communication interface	IO-Link
Operating voltage (DC)	10 - 30 V

Mechanical features

Design	Cuboid
Width	5 mm
Height	25 mm
Cable length	0.15 m
Cable infeed	axial
Length	5 mm
Maximum tightening torque	0.5 Nm
Mechanical mounting condition for sensor	flush
Surface	Chrome-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PCB)
Housing material	Brass
Material of cable sheath	Plastic (PUR)
Ambient temperature	-25 - 70 °C

Other features

IO-Link version	V1.0.1
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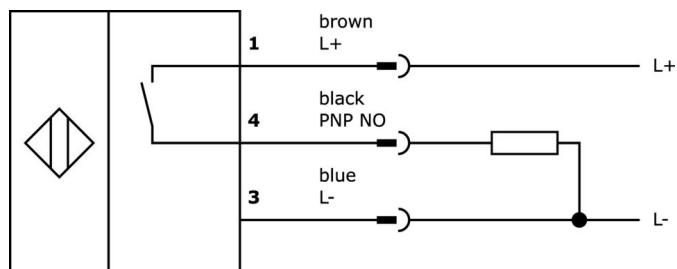
Classification

ETIM 8	EC002714 Inductive proximity switch
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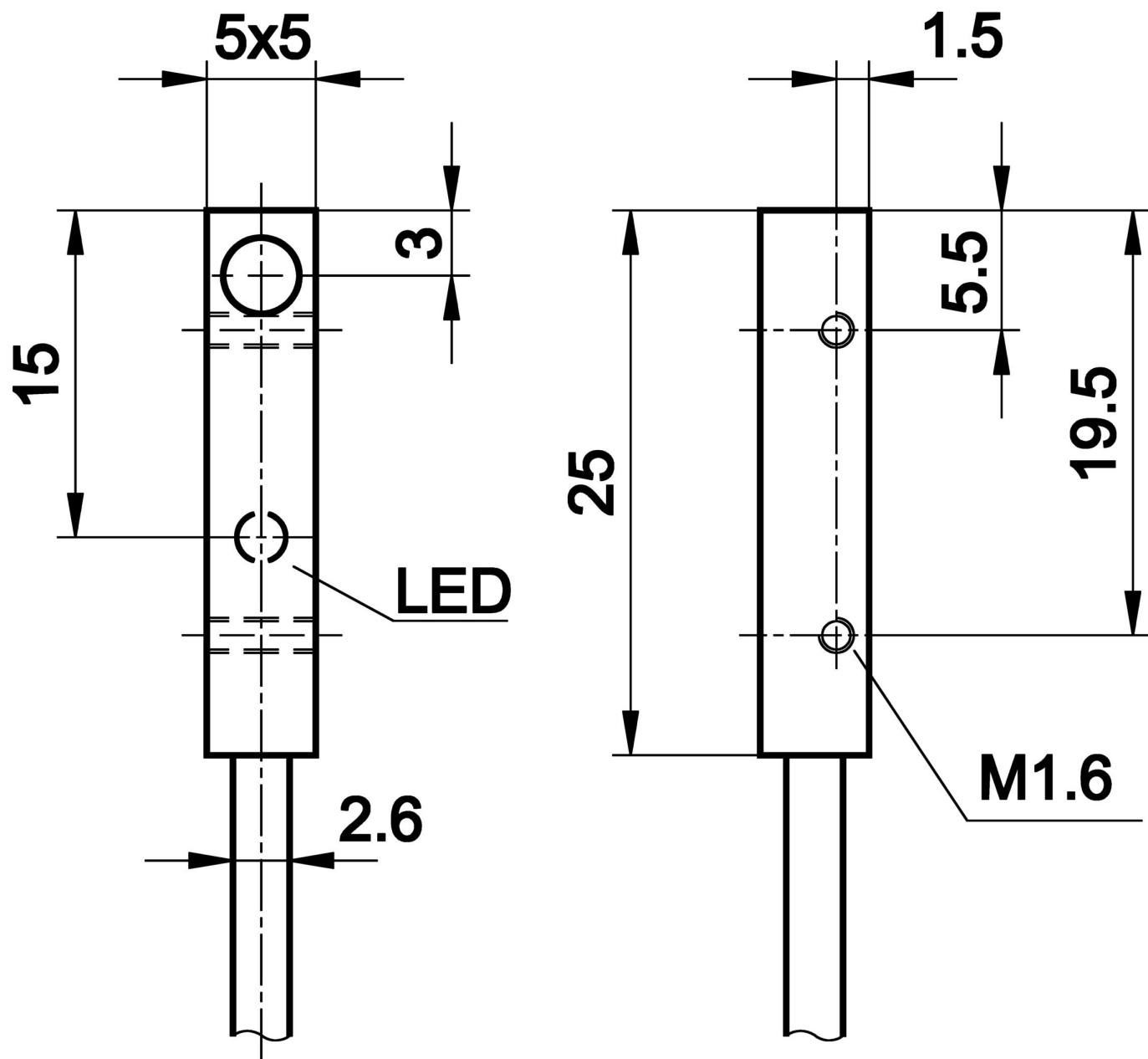
More

IPF Product Group	215 inductive sensors (cuboid)
packaging dimensions	215 x 180 x 10 mm
gross weight	19 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AV000142



accessories cable socket,
Mounting clip, 8.5mm, PPO,
Packaging unit 5, Accessories for
Cable socket/connector M8

NG530002



DC power supply, single-phase,
99x114x22mm, 24V, 0.1A,
Number of relay outputs 2, 100-
264V AC 50Hz, 100-264V AC 60Hz,
Screw connection, IP20, Plastic,
Stabilized, Output voltage, pulsed

NG400501



DC power supply, 1-phase,
125x114x40mm, 24-28V, 5A, 90-
264V AC 50Hz, 90-264V AC 60Hz,
127-370V DC, screw connection,
IP20, aluminum, stabilized, pulsed
output voltage

VY000004



DC power supply, sensor tester,
120x26x72mm, 18V, 0.04A, Spring
clamp connection 4pin, IP20,
Plastic

VY000005



IO-Link master, 41x24x67mm, IO-
Link, M12, With USB interface

AY000141



Plastic sheath, Ø17mm, Inner
diameter 10mm, -40-250°C, Glass
fiber with silicone rubber, Short-
term resistance to weld spatter
1200°C, Tensile strength 400N,
Flexible, Flame retardant, yard
good

AY000079



accessories sensor, Metal screw,
M1.6x0.35 10long, Screw slot,
Cylinder head, Brass Untreated

You can find further accessories on our homepage



Installation

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



Disposal

WEEE number according to § 6 para. 3
ElektroG: 40951076

Safety warnings

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

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

/ Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com