

## IB1201K0

### Inductive sensors • atmospheric-change resistant

sensor inductive, M12x1 63long, Flush, Sn: 2, 10-30V DC, -25-120°C, PNP NO, Cable 2m FEP, IP69K, V4A

including Nut



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

Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	200 mA
Relative hysteresis	10 %
Short-circuit protection	Yes
No-load current	4 mA
Relative repeat accuracy	3 %
Residual ripple	10 %
Switching distance	2 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

**Mechanical features**

Number of cores	3
Conductor cross-section	0.34 mm <sup>2</sup>
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Pressure resistance	10 bar
Thread length	35 mm
Thread pitch	1 mm
Cable length	2 m
Cable infeed	axial
Length	63 mm
Mechanical mounting condition for sensor	flush
Degree of protection (IP)	IP69K
Active area material of sensor	Plastic (PTFE)
Housing material	Stainless steel 1.4571
Material of cable sheath	Plastic (FEP)
Atmospheric-change resistant (temperature cycle)	Yes
Thread dimension	M12
Ambient temperature	-25 - 120 °C
Line diameter	4.6 mm

**Other features**

Oil and cooling lubricants	Yes
Reference medium / object	Standard measuring plate FE360 12x12x1mm

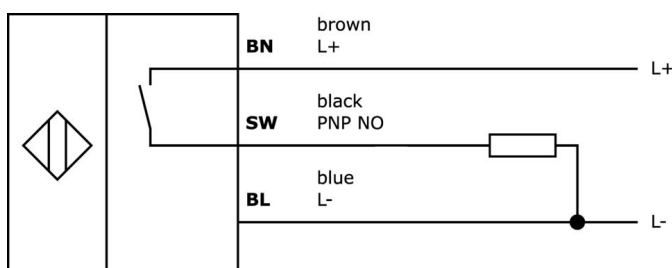
**Classification**

ETIM 8	EC002714 Inductive proximity switch
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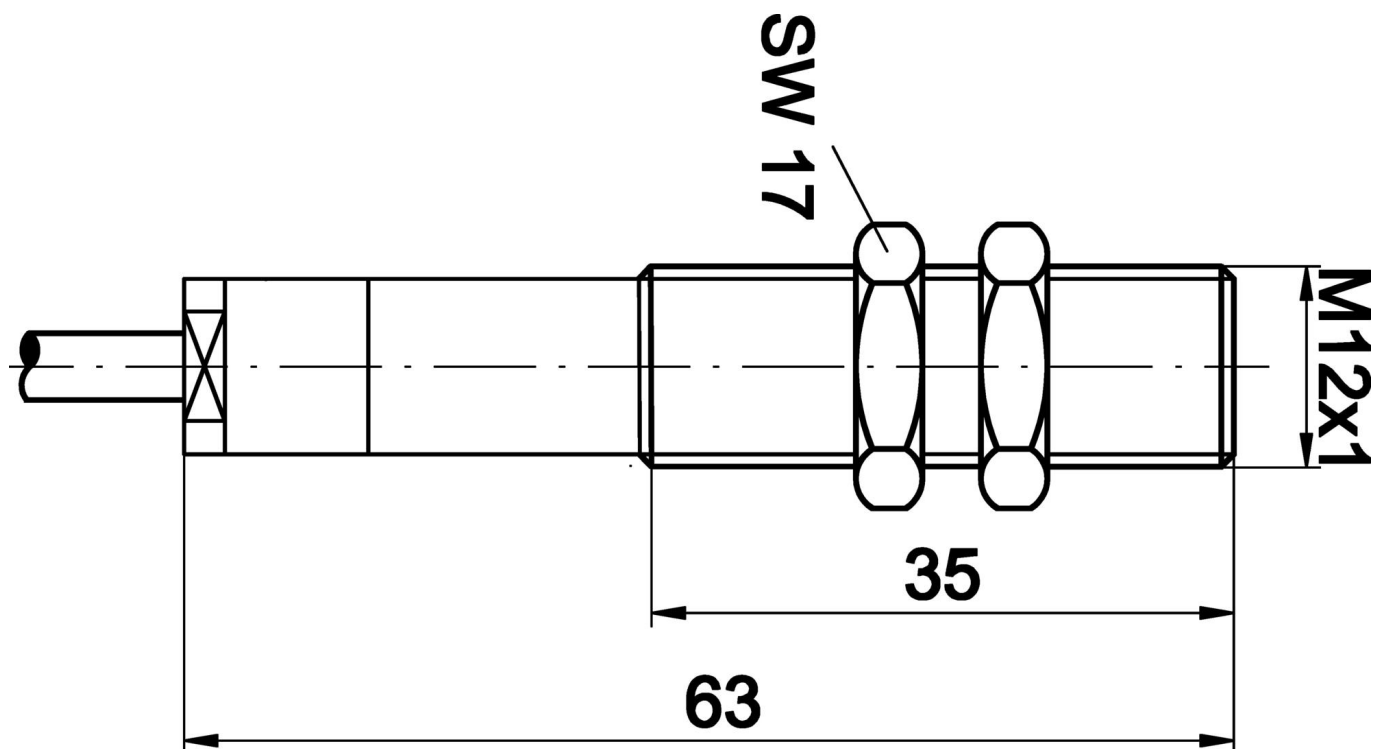
**More**

IPF Product Group	212 inductive sensors (unaffected by atmospheric changes)
packaging dimensions	149 x 124 x 28 mm
gross weight	110 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**



**Dimensional drawing**



**Extract accessories program**

**VY850001**



Inverter/signal-inversion/turn-off delay, 85x65x18mm, 0.01-10s, 12-30V DC, 1x NC/NO, Clamp 8pin, IP40, Plastic, Plug-in jumpers

**VY850002**



Inverter/signal-inversion/turn-off delay, 85x65x18mm, 0.01-10s, 12-30V DC, 1x NC/NO, Clamp 8pin, IP40, Plastic, Plug-in jumpers

**AY000162**



Accessories, magnetic, Ø43mm, neodymium-iron-boron, inside thread M5, rubber

**AY000159**



accessories sensor, Mounting pipe, Ø12mm 200long, Aluminum Anodised

**AY000115**



accessories sensor, Fixture kit, Metal, ball joint

**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

**AY000156**



accessories sensor, Clamp sleeve, M16x1 31long, Brass White bronze

**VL250100**



Logic module, 49x80x26mm, AND, 4fold, 10-35V DC, sensor side Clamp, control side Clamp, IP40, Plastic

**VL250120**



Logic module, 49x80x26mm, OR, 4fold, 10-35V DC, sensor side Clamp, control side Clamp, IP40, Plastic

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.