

## IB98E090

### Inductive sensors • Norm switching distance

sensor inductive, 16x4,7x8mm, Flush, Sn: 2, 10-30V DC, PNP NO, Cable 2m PUR (Polyurethane), IP67, Zinc die-cast Nickel-plated



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
Type of switching output	PNP
Rated switching current	100mA
Relative hysteresis	20%
Short-circuit protection	Yes
No-load current	12mA
Switching distance	2mm
Switching frequency	5000Hz
Voltage drop	2V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30V

## Mechanical features

Number of cores	3
Conductor cross-section	0.14mm <sup>2</sup>
Design	Cuboid
Width	8mm
Height	16mm
Cable length	2m
Cable infeed	axial
Length	4.7mm
Mechanical mounting condition for sensor	flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBT)
Housing material	Zinc die-cast
Material of cable sheath	Plastic (PUR)
Ambient temperature	-25 - 75°C

## Other features

Ambient temperature	-25 - 75°C
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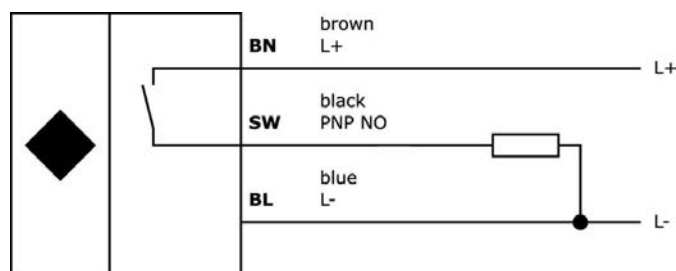
## Classification

ETIM 8	EC002714 Inductive proximity switch
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## More

IPF Product Group	215 inductive sensors (cuboid)
packaging dimensions	125 x 100 x 15 mm
gross weight	17 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes
MTTF	548 year(s)

## Connection



#### 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.

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

For suitable connection and mounting accessories, please refer to our website [www.ipf-electronic.com](http://www.ipf-electronic.com).

#### Dimensional drawing

