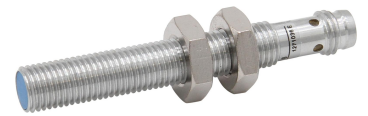


## IB080176

### Inductive sensors • Increased switching distance

Sensor inductive, M8x1 60long, quasi-flush, Sn: 3, 10-30V DC, PNP NO, M8 plug connector 3-pin, IP67, chrome-plated brass

including Nut, Toothed washer



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	Connector M8
Type of switching output	PNP
Rated switching current	200 mA
Relative hysteresis	10 %
Correction factor (aluminum)	0.3
Correction factor (copper)	0.27
Correction factor (brass)	0.41
Correction factor (St37)	1
Correction factor (stainl. steel)	0.72
Short-circuit protection	Yes
No-load current	10 mA
Number of pins	3
Relative repeat accuracy	5 %
Switching distance	3 mm
Switching frequency	1000 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Operating voltage (DC)	10 - 30 V

**Mechanical features**

Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread length	45 mm
Thread pitch	1 mm
Cable infeed	axial
Length	60 mm
Mechanical mounting condition for sensor	semi-flush
Surface	Chrome-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PBTP)
Housing material	Brass
Thread dimension	M8
Ambient temperature	-25 - 70 °C

**Other features**

Reference medium / object	Standard measuring plate FE360 9x9x1mm
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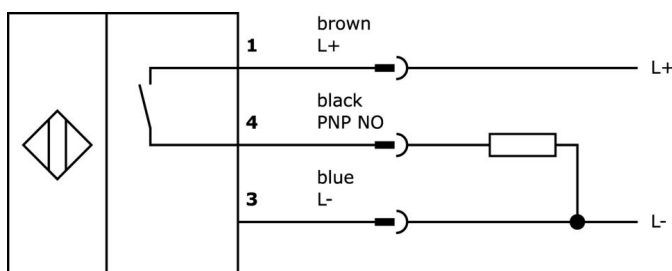
**Classification**

ETIM 8	EC002714 Inductive proximity switch
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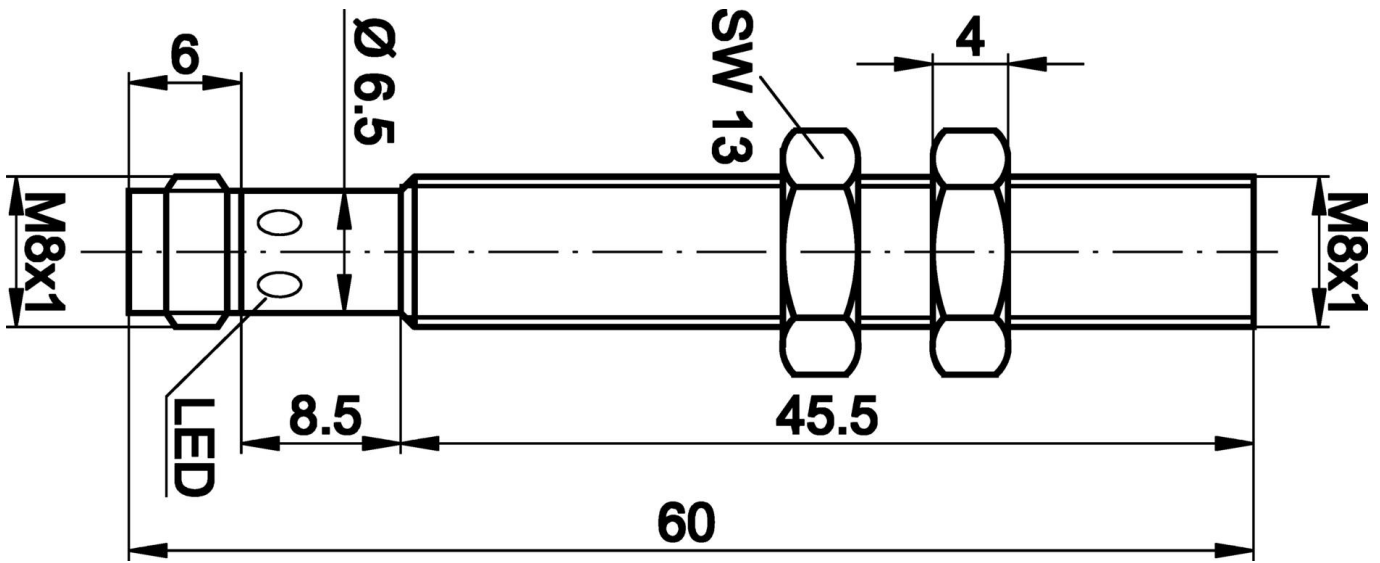
**More**

IPF Product Group	201 inductive sensors (plus / super plus)
packaging dimensions	215 x 180 x 10 mm
gross weight	26 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection**

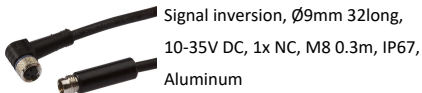


**Dimensional drawing**

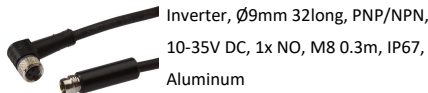


**Extract accessories program**

**VYR90270**



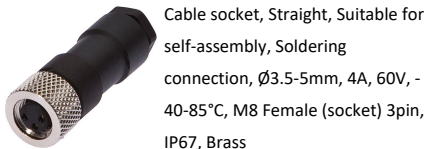
**VYR91170**



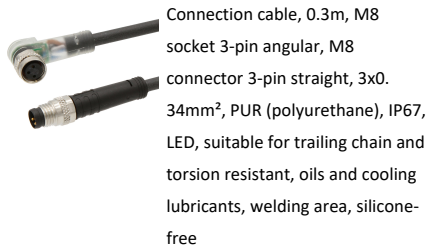
**VK003070**



**VK003074**



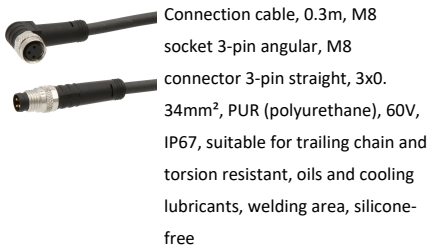
**VK030F72**



**VK060F72**



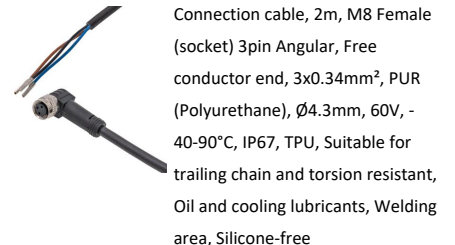
**VK030F70**



**VK030F74**



**VK200071**



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

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**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.