

IN185200

Inductive sensors • Norm switching distance

Sensor inductive, M18x1 60long, non-flush, Sn: 8, 20-250V AC/DC, two-wire NC, cable 2m PVC, IP67, nickel-plated (n-pltd) brass

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 closed contact (NC)
Type of electrical connection	Cable
Type of switching output	Two-wire
Rated switching current	350 mA
Relative hysteresis	15 %
Short-circuit protection	Yes
Relative repeat accuracy	5 %
Switching distance	8 mm
Switching frequency	30 Hz
Voltage drop	5 V
Min. output current	2 mA
Operating voltage (AC 50Hz)	20 - 250 V
Operating voltage (DC)	20 - 250 V

Mechanical features

Conductor cross-section	0.5 mm ²
Alignment of cable entry	axial
Design	Cylinder, screw-thread
Thread pitch	1 mm
Cable length	2 m
Cable infeed	axial
Length	60 mm
Mechanical mounting condition for sensor	non-flush
Surface	nickel-plated
Degree of protection (IP)	IP67
Active area material of sensor	Plastic (PA6.6)
Housing material	Brass
Material of cable sheath	Plastic (PVC)
Thread dimension	M18
Ambient temperature	-25 - 70 °C

Other features

Reference medium / object	Standard measuring plate FE360 18x18x1mm
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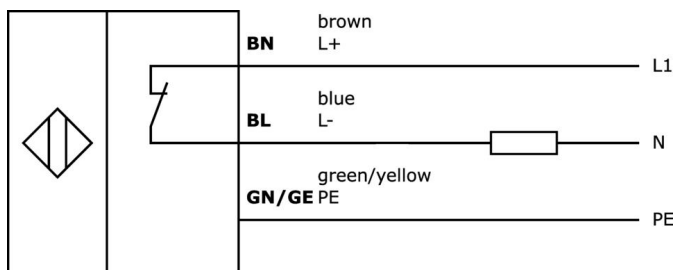
Classification

ETIM 8	EC002714 Inductive proximity switch
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More

IPF Product Group	203 inductive sensors (diverse)
packaging dimensions	123 x 77 x 25 mm
gross weight	145 g
Customs tariff number	85365080
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

AY000117



accessories sensor, Fixture kit,
Metal, ball joint

AY000162



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

AY000129



Accessories, magnetic, Ø66mm,
neodymium-iron-boron, inside
thread M6, rubber

AY000144



accessories sensor, Adapter plate,
3x30x85mm, Stainless steel 1.
4305

AY000026



accessories, Hexagon nut, M18x1,
Wrench size 24mm, Brass Nickel-
plated

AY000038



accessories, Hexagon nut, M18x1,
Wrench size 24mm, Stainless steel

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

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

AY000159



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

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.