

MZR401A9

Magnetic field sensors • Sensors for C-slot

Sensor Magnetic, cylinder, 4.1mm round groove, Ø4mm 20long, 10-30V DC, 1x PNP NO, cable 2m PUR-cable (polyurethane), IP67, stainl. steel, LED, 6mT, lateral installation, position of sensor surface at the edge of the device



For many tasks in automation technology, it is necessary to recognize the movement processes in pneumatic and hydraulic cylinders and to precisely detect the position of the piston. This is where magnetic cylinder sensors are used, which are attached to the cylinders using adapters or directly from the outside.

Electrical features

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	150 mA
Absolute hysteresis	1 mm
No-load current	10 mA
Magnetic sensitivity	6 mT
Switching frequency	1000 Hz
Sensor surface (active)	Border area / edge area
Voltage drop	2 V
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V
ardTEEL_Schutzfunktionen	Short circuit protection Reverse polarity protection

Mechanical features

Number of cores	3
Design	Cylinder plain
Diameter	4 mm
Cable length	2 m
Sensor surface position	Device edge area below the light emitting diode
Length	20.5 mm
Mounting access, cylinder groove	Lateral
Degree of protection (IP)	IP67
Housing material	Stainless steel 1.4305
Material of cable sheath	Kunststoff (PUR)
Ambient temperature	-25 - 70 °C
Line diameter	2.5 mm
ardTEME_Umgebungsbestaendigkeiten	Öle Kühlschmiermittel starke Erschütterungen/ Bewegungen

Other features

Suitable for	4.1mm C-slot (round groove)
Cylinder manufacturer	SMC
Harsh environmental conditions	Yes

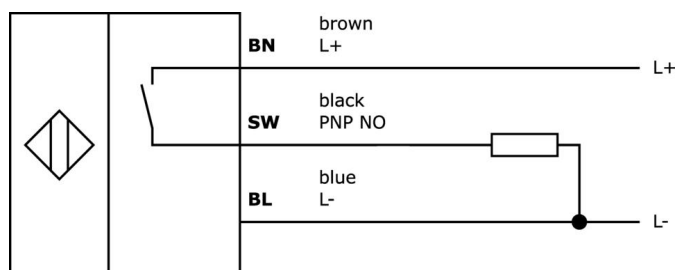
Classification

ETIM 8	EC002544 Magnetic proximity switch
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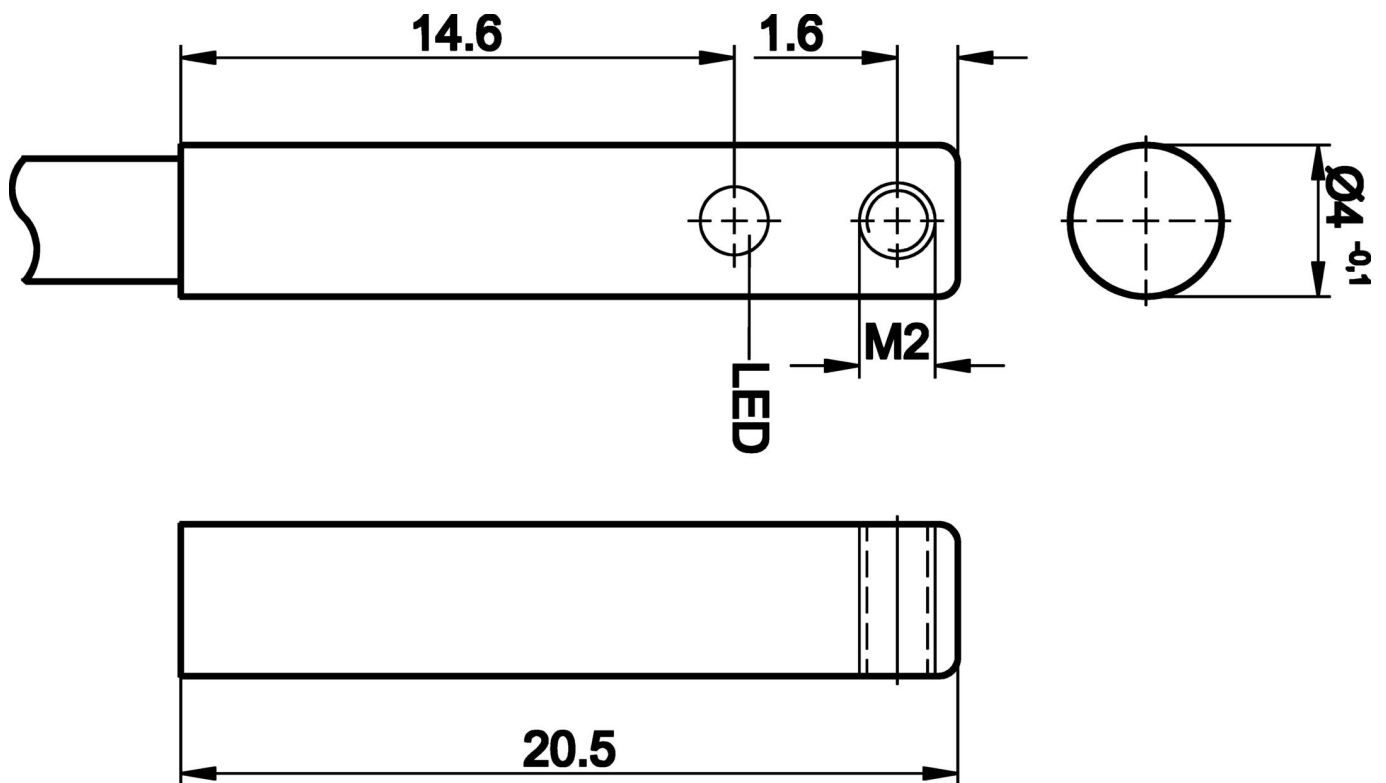
More

IPF Product Group	220 pneumatic cylinder sensors
packaging dimensions	200 x 150 x 12 mm
gross weight	25 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AM000080



accessories magnetic, Internal hexagon, 10x30mm, wrench size 0.9mm, VA, Packaging unit 10

VY000004



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

AY000154



Tool, Screwdriver set, Internal hexagon 0.7mm, Internal hexagon 0.9mm, Internal hexagon 1.3mm, Internal hexagon 1.5mm, Internal hexagon 2mm, Slot 1.5mm, Slot 2mm, Slot 2.5mm, Chromium steel

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

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

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

VK003076



Cable connector, Angular, Suitable for self-assembly, Soldering connection, 4A, 60V, -40-85°C, M8 Male (connector) 3pin, IP67, Brass

VK003078



Cable connector, Straight, Suitable for self-assembly, Soldering connection, Ø3.5-5mm, 4A, 60V, -40-85°C, M8 Male (connector) 3pin, IP67, Brass

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.