

MZR4A728

Magnetic field sensors • Sensors for C-slot

sensor magnetic, cylinder, 3.75mm rounded groove, Ø3,6mm 20long, 10-30V DC, 1x PNP NO, Cable connector M8 3pin 0.3m PUR (Polyurethane), IP67, Stainless steel 1.4305, LED, 2.8mT, mounting Lateral, Packaging unit 100 (MZR42178), Sensor surface posit...



For many tasks in the field of automation technology, it is necessary to recognize the motional processes in pneumatic and hydraulic cylinders and to detect the position of the piston with precision. For this, magnetic cylinder sensors are used.

Electrical features

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable connector M8
Type of switching output	PNP
Rated switching current	100 mA
Absolute hysteresis	1 mm
Short-circuit protection	No
No-load current	10 mA
Magnetic sensitivity	2.8 mT
Number of pins	3
Switching frequency	1000 Hz
Sensor surface (active)	Border area / edge area
Voltage drop	2 V
Reverse polarity protection	Yes
Absolute repeat accuracy	0.1 mm
Operating voltage (DC)	10 - 30 V

Mechanical features

Number of cores	3
Design	Cylinder plain
Diameter	3.6 mm
Cable length	0.3 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	Plastic (PUR)
Strong vibration / motion	Yes
Ambient temperature	-25 - 70 °C

Other features

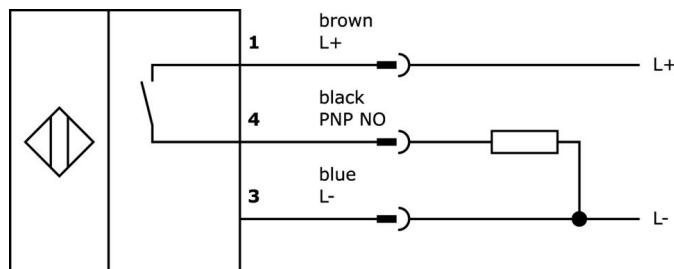
Suitable for	3.5mm C-slot (round groove)
Cylinder manufacturer	Festo
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes

Classification

ETIM 8	EC002544 Magnetic proximity switch
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More

IPF Product Group	221 pneumatic cylinder sensors (low cost / reed)
packaging dimensions	350 x 250 x 31 mm
gross weight	1000 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Extract accessories program**AV000142**

accessories cable socket,
Mounting clip, 8.5mm, PPO,
Packaging unit 5, Accessories for
Cable socket/connector M8

AM000080

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

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

AM000081

accessories magnetic, Adapter,
5x20x4,6mm, Aluminum

AM000111

accessories magnetic, Clamp, Ø3,
6mm 6long, Metal

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

VY000004

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

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

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

- I** Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- I** Never use these devices in applications where the safety of a person depends on their functionality.