

MZ0701A9

Magnetic field sensors • Sensors for T-slot

sensor magnetic, cylinder, 6.2mm T-groove, 6,5x27x5mm, 10-30V DC, 1x PNP NO,
Cable 5m PUR (Polyurethane), IP67, V4A, LED, 2.8mT, mounting From the top, Sensor
surface position Center of the device



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
Type of switching output	PNP
Rated switching current	150 mA
Absolute hysteresis	1 mm
Short-circuit protection	Yes
No-load current	15 mA
Magnetic sensitivity	2.8 mT
Switching frequency	1000 Hz
Sensor surface (active)	Middle 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	Cuboid
Width	5 mm
Height	6.5 mm
Cable length	5 m
Sensor surface position	Center of the device
Length	27 mm
Mounting access, cylinder groove	From the top
Degree of protection (IP)	IP67
Housing material	Stainless steel (V4A)
Material of cable sheath	Plastic (PUR)
Strong vibration / motion	Yes
Ambient temperature	-25 - 70 °C

Other features

Suitable for	6.2mm T-slot
Cylinder version	With T-groove
Harsh environmental conditions	Yes
Oil and cooling lubricants	Yes

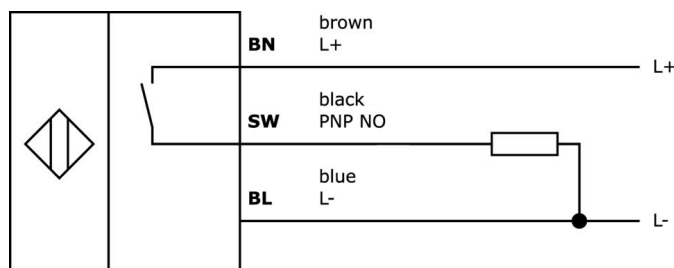
Classification

ETIM 8	EC002544 Magnetic proximity switch
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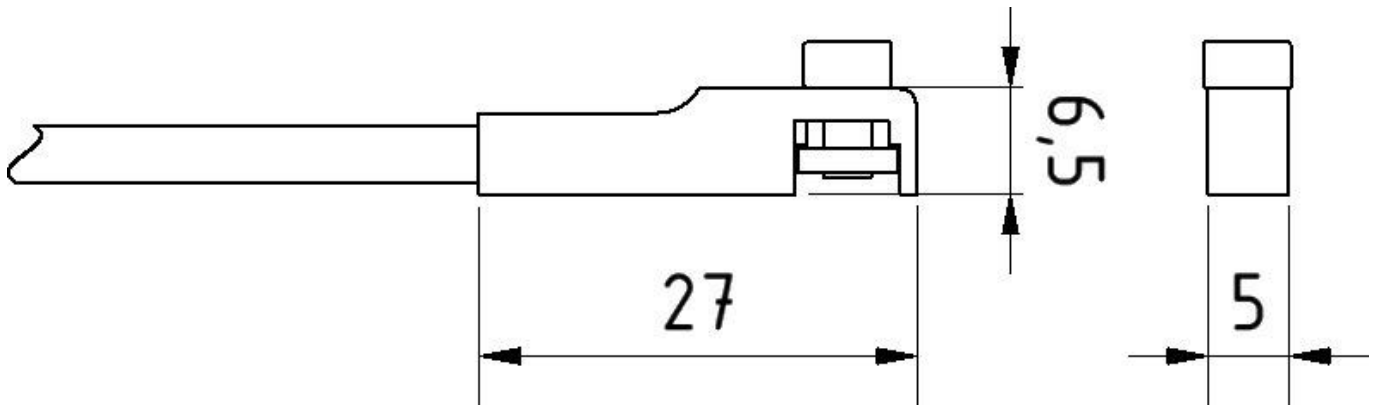
More

IPF Product Group	220 pneumatic cylinder sensors
packaging dimensions	124 x 28 x 149 mm
gross weight	142 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

AM000087



accessories magnetic, Cable clip,
Plastic

AM000037



accessories magnetic, Mounting
clip, 18x19x19mm, span 8.3-9.
4mm, Plastic, For sensor MZ07, for
Cylinder, 8round

AM000038



accessories magnetic, Mounting
clip, 20x21x19mm, span 10.2-11.
95mm, Plastic, For sensor MZ07,
for Cylinder, 10round

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

AM000076



accessories magnetic, clamp, 4x6,
2x6,2mm, aluminum

AM98A882



accessories magnetic, For sensor
MZ07, for Cylinder, Bosch profiled
barrel, Screw mounting

AM98E153



accessories magnetic, Installation
tape, 259x9,5mm, Span 35-68mm,
For sensor MZ07, Stainless steel

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.