

**MZR421K9**
**MAGNETIC SENSORS • SENSORS FOR PNEUMATIC CYLINDERS**

sensor magnetic, cylinder, 4.1mm rounded groove, Ø4mm 20long,  
10-30V DC, 1x PNP NO, Cable connector M8 3pin 1m PUR (Polyurethane), IP67, Stainless steel 1.4305, LED, 6mT, mounting Lateral,  
Sensor surface position Border area of the device


**MECHANICAL FEATURES**

Ambient temperature	-25 °C ... 70 °C
Cable length	1 m
Degree of protection (IP)	IP67
Design	Cylinder plain
Housing material	Stainless steel 1.4305
Increased ambient temperatures > 80°C	-
Material of cable sheath	PUR (Polyurethane)
Metal housing	+
Mounting access, cylinder groove	Lateral
Sensor diameter	4 mm
Sensor length	20.5 mm
Sensor surface position	Border area of the device
Strong vibration / motion	+
Type of rounded groove	4.1mm rounded groove
Version	4.1mm rounded groove

**ELECTRICAL FEATURES**

Cross/short circuit identification possible	-
Low sensitivity	-
Low switching hysteresis	+
Magnetic sensitivity	6 mT
No-load current	10 mA
Number of pins	3
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Rated switching current	100 mA
Reed contact	-
Relative repeat accuracy	0.1 mm
Reverse polarity protection	+
Sensor surface (active)	Middle area
Setting via teach-in	-
Short-circuit protection	-
Suitable for safety functions	-

## ELECTRICAL FEATURES

Switching frequency	1000 Hz
Two switching points	-
Type of electrical connection	Cable connector M8
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	+
With monitoring function of downstream devices	-

## OTHER FEATURES

Cylinder sensors	+
Cylinder version	With C-groove (round groove)
Harsh environmental conditions	+
Metallic sensor surface	-
Oil and cooling lubricants	+
Short travel path	-

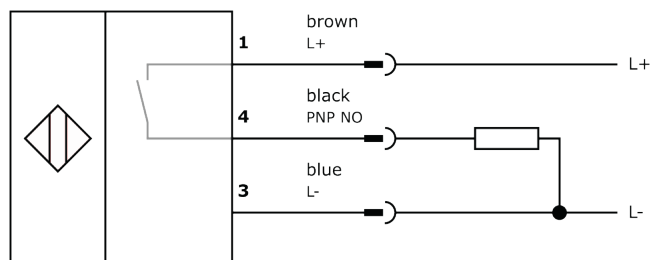
## Other

Packaging dimensions	100mm x 0.0mm x 120mm
Shipping weight	0.02kg
Tariff code	85365019

## Classification

ipf product group	221
eClass 8.0	27270105
eClass 9.0	27270105
eClass 9.1	27270105
ETIM-5.0	EC002544
ETIM-6.0	EC002544
ETIM-7.0	EC002544

## Connection



## Dimensional drawing

## Installation



Mounting / installation may only be carried out by a qualified electrician!

## Disposal



## Software

Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: [www.ipf-electronic.com](http://www.ipf-electronic.com)

**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.

LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.