

MZR401A8
MAGNETIC SENSORS • SENSORS FOR PNEUMATIC CYLINDERS

sensor magnetic, cylinder, 3.75mm rounded groove, Ø3,6mm
 20long, 10-30V DC, 1x PNP NO, Cable 2m PUR (Polyurethane), IP67,
 Stainless steel 1.4305, LED, 2.8mT, mounting Lateral, Sensor surface
 position Border area of the device


MECHANICAL FEATURES

Ambient temperature	-25 °C ... 70 °C
Cable length	2 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
Number of cores	3
Sensor diameter	3.6 mm
Sensor length	20.5 mm
Sensor surface position	Border area of the device
Strong vibration / motion	+
Type of rounded groove	3.75mm rounded groove
Version	3.75mm rounded groove

ELECTRICAL FEATURES

Cross/short circuit identification possible	-
Hysteresis	1 mm
Low sensitivity	-
Low switching hysteresis	+
Magnetic sensitivity	2.8 mT
No-load current	15 mA
Number of switching outputs	1
Operating voltage	10 V ... 30 V
Rated switching current	150 mA
Reed contact	-
Relative repeat accuracy	0.1 mm
Reverse polarity protection	+
Sensor surface (active)	Middle area
Setting via teach-in	-
Short-circuit protection	+

ELECTRICAL FEATURES

Suitable for safety functions

Switching frequency	1000 Hz
Two switching points	-
Type of electrical connection	Cable
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	-

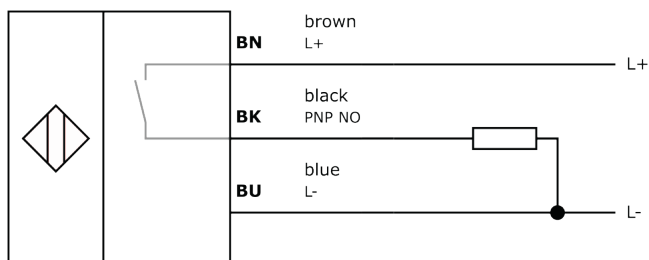
Other

Packaging dimensions	77.0mm x 25.0mm x 123.0mm
Shipping weight	0.04kg
Tariff code	85365019

Classification

ipf product group	220
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

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.