

Product characteristics

Magnetic sensor

Rectangular, plastics

Cable

Sensing range 60 mm; referred to magnet M4.0

Magnetic sensitivity ca. 1.2 mT

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC; cULus - Class 2 source required

Current consumption [mA]

< 10

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

200

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

5000

Monitoring range

Sensing range [mm]

60, referred to magnet M4.0

Magnetic sensitivity [mT]

ca. 1.2

Accuracy / deviations

Hysteresis [% of Sr]

1...10

Environment

Ambient temperature [°C]

-25...75

Protection

IP 67

Tests / approvals

EMC

EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
 EN 61000-4-3 HF radiated: 10 V/m
 EN 61000-4-4 Burst: 2 kV
 EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)
 EN 61000-4-6 HF conducted: 10 V
 EN 55011: class B

MTTF [Years]

2847

Mechanical data

Housing materials

housing: PBT orange

Weight [kg]

0.06

Displays / operating elements

Output status indication LED

yellow

Electrical connection

MS5011 - Magnetic sensor - eclass: 27270104 / 27-27-01-04

Connection

PUR / PVC cable / 2 m; 3 x 0.14 mm²

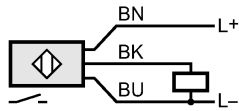
Wiring

Core colors

BK black

BN brown

BU blue



Remarks

Pack quantity

[piece]

1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — MS5011 — 06.01.2009