sensor IFS 212

URL:https://www.sxplc.com/sensor-ifs-212

Product data sheet

Product characteristics

Electrical design

PNP

Output function

normally open

Sensing range [mm]

4

Housing

Threaded type

Dimensions [mm]

M12 x 1 / L = 70

Application

System

gold-plated contacts; Increased sensing range

Application

Industrial applications

Electrical data

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 10

Protection class

II

Reverse polarity protection

yes

Outputs

Electrical design

PNP

Output function

normally open

Max. voltage drop switching output DC [V]

2.5

Permanent current rating of switching output DC [mA]

100

Switching frequency DC [Hz]

700

Short-circuit protection

yes

Overload protection

yes

Monitoring range

Sensing range [mm]

4

Real sensing range Sr [mm]

4 ± 10 %

Operating distance [mm]

0...3.24

Increased sensing range

yes

Accuracy / deviations

Correction factor

steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3

Hysteresis [% of Sr]

3...15

Switch-point drift [% of Sr]

-10...10

Operating conditions

Ambient temperature [°C]

-25...70

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 61000-4-6 HF conducted

10 V

EN 55011

class B

MTTF [years]

1134

Embedded software included

no

UL approval

Ta

0...40 °C

Enclosure type

Type 1

voltage supply

Hazardous voltage

UL approval number

A003

File number UL

E174191

Mechanical data

Weight [g]

30

Housing

Threaded type

Mounting

flush mountable

Dimensions [mm]

M12 x 1 / L = 70

Thread designation

M12 x 1

Material

housing: brass white bronze coated; sensing face: PBT orange; LED window: PEI; lock nuts: brass white bronze coated

Displays / operating elements

Display

Switching status

4 x LED, yellow

Accessories

Items supplied

lock nuts: 2

Remarks

Pack quantity

1 pcs.

Electrical connection - plug

Connection

Connector: 1 x M12; coding: A; Contacts: gold-plated