



switch IFS304

URL:<https://www.sxplc.com/switch-ifs304>

Product data sheet

Product Characteristics

Electrical Design

PNP

Output Function

Normally open

Sensing distance [mm]

4

Housing

Threaded construction

Dimensions [mm]

M12 x 1 / L = 60

Application

Special features

Gold-plated contacts; increased sensing distance; correction factor K = 1; EMI-resistant

Applications

Material transportation; refrigerated warehouses / flash freezers; for industrial, mobile, cooling and lubrication applications; industrial applications / factory automation

EMI Resistant

Yes

Electromagnetic field immunity max [mT]

300

Electrical data

Operating voltage [V]

10.... 30 DC

Current loss [mA]

< 20

Protection class

III

Inverted phase protection

yes

Outputs

Electrical design

PNP

Output Function

Normally open

Switching output DC voltage drop max.

2.5

Continuous current load of switching output DC [mA]

100

Switching frequency DC [Hz]

2000

Short-circuit protection

Yes

Overload protection

Yes

Monitoring range

Sensing distance [mm]

4

Actual sensing distance S_r [mm]

$4 \pm 10 \%$

Operating distance [mm]

0.... 3.24

Increased sensing distance

yes

Accuracy / Deviation

Calibration factor

Steel: 1 / Special steel: 1 / Brass: 1 / Aluminum: 1 / Copper: 1

Hysteresis [% of Sr]

3.... .15

Switching point offset [% of Sr] -10...15

-10.... .10

Calibration factor K = 1

Yes

Operating conditions

Ambient temperature [°C]

-40.... .85

Enclosure protection class

ip 65; ip 66; ip 67; ip 68; ip 69k

Approvals/Tests

EMC Electromagnetic Compatibility

EN 61000-4-2 ESD

4 kV CD / 8 kV AD

EN 61000-4-3 HF EMF radiation

10 V/m

EN 61000-4-4 Burst

2 kV

EN 61000-4-6 Conducted immunity for RF field induction

10 V

EN 55011

Class B

Vibration strength

EN 60068-2-6 Fc

20 g (10.....3000 Hz) / 50 scanning cycles/frequency; one octave per minute for every 3 axes

Shock resistance

EN 60068-2-27 Ea

100 g 11 ms half-sine; 3 shocks in each direction in 3 axes

Continuous shock resistance

EN 60068-2-27

40 g 6 ms; 4000 shocks in each direction in 3 axes

Rapid temperature change

EN 60068-2-14 Na

TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles

Salt spray test

EN 60068-2-52 Kb

Strictness class 5 (4 test cycles)

MTTF [years]

473

Including embedded software

Available

UL Listed

Ta

-25.... .70 °C

Enclosure type

Type 1

Power supply

Limited Voltage/Current

UL Recognition Number

A005

File Number UL

E174191

Mechanical Technical Data

Weight [g]

26.9

Housing

Threaded construction

Mounting

Flush mounting

Dimensions [mm]

M12 x 1 / L = 60

Thread designation

M12 x 1

Material

Stainless steel (1.4404 / 316L); Sensing surface: LCP white; LED window: PEI; Fixing nut: Stainless steel (1.4404 / 316L)

Display / Operator

Display

Switch status

4 x LED, yellow

Attachment

Scope of supply

Comments

Packaging unit

1 Piece

Electrical Connection - Plug

connector

Connector: 1 x M12; Translator: A; Contacts: gold plated

