



Inductive Sensor IG5905(IGK2008BF RKG/M/2LED/US-104-IRF)

URL:<https://www.sxplc.com/inductive-sensor-ig5905-igk2008bfrkg-m-2led-us-104-irf>

Product data sheet

Product Characteristics

Electrical Design

PNP/NPN

Output Function

Normally Open/Normally Closed; (Optional)

Sensing Distance [mm]

8

Housing

Threaded structure

Dimensions [mm]

M18 x 1 / L = 70

Application

Special features

Gold-plated contacts; Increased sensing distance; Optical adjustment aid

Applications

Industrial applications / factory automation

Electrical data

Operating voltage [V]

10.... 30 DC

Protection class

II

Inverted phase protection

Inverted phase protection

OUTPUT

Electrical Design

PNP/NPN

Output Function

Normally open/closed; (optional)

Switching output DC voltage drop max.

4.6

Minimum Load Current [mA]

4

Leakage current max.

1

Continuous current loading of switching output DC [mA] 100

100

Switching frequency DC [Hz]

400

Short circuit protection

Short-circuit protection

Short-circuit protection type

Pulse

Overload protection

yes

Monitoring range

Sensing distance [mm]

8

Working distance [mm]

0.... .6.5

Increased sensing distance

yes

Accuracy/deviation

Calibration coefficient

Steel: 1 / Stainless steel: 0.7 / Brass: 0.5 / Aluminum: 0.5 / Copper: 0.4

Hysteresis [% Sr]

1.... .15

Operating conditions

Ambient temperature [°C]

-25.... .70

Protection class of the housing

IP 68; ("Coolant")

Certification/Testing

EMC Electromagnetic Compatibility

EN 61000-4-2 ESD

4 kV CD / 8 kV AD

EN 61000-4-3 RF electromagnetic withstand test

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 High frequency conduction

10 V

EN 55011

Class B

MTTF [years]

1424

UL certified

Ta

-25....70 °C .70 °C

Enclosure type

Type 1

Power supply

Limited Voltage/Current

UL Certification No.

A038

File Number UL

E174191

Mechanical Data

Weight [g]

54.1

Housing

Threaded construction

Mounting

flush mounting

Dimensions [mm]

M18 x 1 / L = 70

Thread code

M18 x 1

Material: Yellow brass, white bronze - plated; Sensing surface: PBT orange

Housing: yellow brass, white brass-plated; Sensing surface: PBT orange; LED window: PEI; Retaining nut: yellow brass, white brass-plated

Tightening torque [Nm]

25

Indicator/Operator

Display

On/Off status

4 x 90° LED, yellow

Setting help

1 x LED, red

Optical adjustment aid

yes

Accessories

Scope of supply

Fixing nuts: 2

Note

Packing unit

1 piece

Electrical connection - plug

Connection: 1 x M12; code: A; contact: gold-plated

