



Inductive Sensor IA5082

URL:<https://www.sxplc.com/inductive-sensor-ia5082>

Product data sheet

Product Characteristics

Electrical Design

PNP

Output Function

Normally open

Sensing distance [mm]

10

Housing

Cylindrical

Dimensions [mm]

Ø 20 / L = 77

Electrical data

Operating voltage [V]

10.... 36 DC

Current loss [mA]

15; (24 V)

Protection class

II

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]

250

Switching frequency DC [Hz]

300

Short-circuit protection

Yes

Short-circuit protection type

Pulse

Overload protection

Yes

Monitoring Range

Sensing distance [mm]

10

Actual sensing distance S_r [mm]

$10 \pm 10 \%$

Operating distance [mm]

0.... .8.1

Accuracy / Deviation

Calibration coefficient

Steel: 1 / Special steel: 0.7 / Brass: 0.4 / Aluminum: 0.3 / Copper: 0.2

Hysteresis [% of S_r]

1.... .15

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

-10.... .10

Operating conditions

Ambient temperature [°C]

-25.... .80

Enclosure protection class

IP 67

Approvals/Tests

EMC Electromagnetic Compatibility

EN 60947-5-2

MTTF [year]

1853

Mechanical Technical Data

Weight [g]

160.7

Casing

Cylindrical

Mounting

Non-flush mounting

Dimensions [mm]

Ø 20 / L = 77

Material

PBT

Display / Operating elements

Display

Switch status

1 x LED, yellow

Accessories

Scope of supply

Mounting clips: 1

Note

Packaging unit

1 piece

Electrical connection

Connector: 2 m, PVC; 3 x 0.5 mm²

Cable: 2 m, PVC; 3 x 0.5 mm²

