



## Inductive Proximity Sensor IM5040

URL: <https://www.sxplc.com/inductive-proximity-sensor-im5040>

### Product data sheet

Product Characteristics

Electrical Design

NPN

Output Function

Normally open/closed; (optional)

Sensing distance [mm]

15

Housing

Rectangular

Dimensions [mm]

40 x 40 x 120

Electrical data

Operating voltage [V]

10.... 36 DC

Current loss [mA]

15; (24 V)

Protection class

II

Inverted phase protection

yes

Outputs

Electrical design

NPN

Output Function

Normally open/closed; (optional)

Switching output DC voltage drop max.

2.5

Continuous current load of switching output DC [mA]

250

Switching frequency DC [Hz]

350

Short-circuit protection

Yes

Short-circuit protection type

Pulse

Overload protection

Yes

Monitoring Range

Sensing distance [mm]

15

Actual sensing distance Sr [mm]

$15 \pm 10 \%$

Operating distance [mm]

0.... .12.1

Accuracy / Deviation

Calibration coefficient

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

Hysteresis [% of Sr]

1.... .15

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

-10.... .10

Operating conditions

Ambient temperature [°C]

-25.... .80

Enclosure protection class

IP 65

Certificates/Tests

EMC Electromagnetic Compatibility

EN 60947-5-2

EN 55011

Class B

MTTF [years]

1844

Mechanical Technical Data

Weight [g]

195

Housing

Rectangular

Mounting

flush mounting

Dimensions [mm]

40 x 40 x 120

Material

PPE modified

Display/operating elements

Display

Switch status

1 x LED, red

Comments

Annotation

5 positions of the active area are selectable

Packaging unit

1 piece

Electrical Connection

Connector

Terminal block: .... 2.5 mm<sup>2</sup>; Cable sheath: Ø 7..... 13 mm

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