



sensor 01D100

URL:<https://www.sxplc.com/sensor-01d100>

Product data sheet

Product Characteristics

Laser protection class

2

Housing

Rectangular

Electrical data

Operating voltage [V]

18.... 30 DC; (according to cULus - Class 2)

Current loss [mA]

< 150

Protection class

III

Inverted phase protection

yes

Service life [h]

50000

Total inputs/outputs

Total number of inputs and outputs

Number of digital outputs: 2; Number of analog outputs: 1

Outputs

Number of outputs

2

Electrical design

PNP

Number of digital outputs

2

Output function

Normally open/closed; (parameterizable)

Max. current load per output [mA]

200

Number of analog outputs

1 analog output

Analog current output [mA]

4... .20; (IEC 61131-2)

Max. load value [Ω]

250

Analog voltage output [V]

0... .10; (IEC 61131-2)

Load resistance min.

5000

Short-circuit protection

yes

Type of short-circuit protection

Pulse

Overload protection

Yes

Monitoring range

Spot width max.

15

Spot height max.

15

Spot size reference

10 m

Background fade [m]

0.... .19

Measuring/setting range

Measuring range [m]

0.2.... .10; (white paper 200 x 200 mm 90 % reflection)

Measuring frequency [Hz]

1.... .50

Interfaces

Communication interface

IO-Link

Transmission type

COM2 (38,4 kBaud)

IO-Link revision

1.1

SDCI standards

IEC 61131-9

Shape

Smart Sensor: Sensor Identification; Binary Data Channel; Process Value; Sensor Diagnosis

SIO Mode

Yes

Required mater port type

A

Analog Process Data

2

2-digit output process data

3

Process cycle min.

6

Supported DeviceID

Operation mode

DeviceID

default

806

Operating conditions

Ambient temperature [°C]

-10.... .60

Enclosure protection class

IP 67

Approvals/Tests

EMC Electromagnetic Compatibility

EN 60947-5-2

Laser protection class

2

Laser protection precautions

Attention.

Laser

Power: ≤ 4 mW

≤ 4 mW

Wavelength: 650 nm

650 nm

Pulses: 1,3 ns

1,3 ns

Do not look directly into the beam.

Avoid contact with the laser.

Laser Class: 1,3 ns

2

en / iec60825-1:2007

en/iec60825-1:2014

Conforms to 21 CFR 1040 except for deviation 50 according to the laser notification number, June 2007.

MTTF [Year]

182

Mechanical Technical Data

Weight [g]

243.5

Housing

Rectangular

Dimensions [mm]

59 x 42 x 52

Material

Housing: die-cast zinc; Front lens: glass; LED window: PC

Lens Calibration

Side mirror set

Display / Operating elements

Display

Switch status

2 x LED, yellow

Operation

LED, green

Distance, Programming

Alphanumeric Display, 4 Digits

Attachment (optional)

Accessories (optional)

Protective cover, E21133

Commentary

Notes

For additional information on the detection range and application areas, please refer to the operating instructions.

Packaging unit

1 piece

Electrical connections

Connector: 1 x M12; Interpretation: A

Connector: 1 x M12; Translator: A

