

Proximity sensor SMT-8M-A-PS-24V-E-0,3-M8D

URL:<https://www.sxplc.com/proximity-sensor-smt-8m-a-ps-24v-e-0-3-m8d>

Product data sheet

Technical parameters

devise

For T-slots

Standards-based

EN 60947-5-2

symbol

00991153

authentication

RCM Trademarks

c UL us Listed (OL)

CE certified (see Declaration of Conformity)

Complies with the EU Electromagnetic Compatibility Directive

Compliant with EU RoHS directives

CE marking (see Declaration of Conformity)

Compliant with UK EMC directives

UK RoHS Directive compliant

Certificate Authority

UL E232949

features

Oil-resistant

Material Description:

RoHS compliant

Halogen-free

Directions for use

<https://www.festo.com/Drive-Sensor-Overview>

Measured variables

location

Measuring principle

Magnetoresistive

Ambient temperature

-40 °C ... 85 °C

Repeatability

0.2 mm

Switching outputs

PNP

Switching element function

Normally open contacts

Opening time

≤ 1.3 ms

Closing time

$\leq 7.3 \text{ ms}$

Maximum switching frequency

130 Hz

Maximum output current

100 mA

The maximum output current when using the mounting assembly

100 mA

Maximum switching capacitance DC

2.8 W

The maximum switching capacitance of the mounting assembly, DC, is used

2.8 W

Voltage drop

$< 1.5 \text{ V}$

Short-circuit current rating

be

Overload protection

available

Rated operating voltage DC

24 V

Operating voltage range DC

5 V ... 30 V

Reverse polarity protection

Suitable for all electrical connections

Electrical Interface 1, Connection Type

Cable with plug

Electrical interface 1, connection system

M8x1, A-coded, according to EN 61076-2-104

Electrical interface 1, number of interfaces/cores

3

Electrical Interface 1, Mounting Type

Screw locks

Electrical Interface 1, Interface Style

00991155

Interface exit direction

Coaxial

Cable test conditions

Flexural strength: according to Festo standards

Test conditions are available upon request

Torsional resistance: > 300,000 cycles, $\pm 270^\circ/0.1\text{m}$

Energy chain: > 5 million cycles with a bend radius of 28 mm

Cable length

0.3 m

Cable characteristics

Suitable for e-chain/robot applications

Cable sheath color

grey

Cable sheath material

TPE-U(PUR)

Installation:

Screw clamping

Can be inserted from the top of the slot

Maximum tightening torque

0.6 Nm

Installation location

Optional

Product weight

8.9 g

Housing color

black

Housing material

Nickel-plated brass

Reinforced polyamide

High-alloy stainless steel

Switching status indication

Yellow LED

Reverse indication function

Orange LEDs

Ambient temperature with moving cables

-20 °C ... 85 °C

Ingress protection

IP65

IP68

IP69K

Paint wetting defective substance (PWIS) compliance

VDMA24364-B2-L

Suitable for lithium-ion battery production

Does not use more than 1% copper, zinc or nickel

