Specifications

Eaton 197831

Catalog Number: 197831

Eaton Moeller® series E57PS Proximity switch, E57P Performance Short Body Serie, 1 NC, 3-wire, 10 – 48 V DC, M12 x 1 mm, Sn= 4 mm, Non-flush, PNP, Stainless steel, 2 m connection cable



General specifications

Product Name
Eaton Moeller® series E57PS Proximity switch

Catalog Number
197831

EAN
4015081949380

Product Length/Depth
64.1 mm

Product Height
12 mm

Product Width
12 mm

Product Weight
0.079 kg

Certifications
UL 508
Certified by UL for use in Canada
UL Category Control No.: NRKH, NRKH7

CSA-C22.2 No. 14
UL Listed
IEC/EN 60947-5-2
UL File No.: E166051

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Product specifications

Type

Inductive sensor

Electric connection type

Cable

Enclosure material finishing

Other

Actuation type

Metallic Target

Enclosure material

Metal

Enclosure type

Cylinder, screw-thread

Category (EN 954-1)

B

Explosion safety category for dust

None

Explosion safety category for gas

None

Safety performance level (EN ISO 13849-1)

None

SIL (IEC 61508)

None

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-40 °C

Diameter sensor

12 mm

Number of contact energized outputs with signalling function

0

Number of contacts (normally closed contacts)

1

Number of outputs (protected contact energized)

0

Number of outputs (protected semiconductor)

Resources

Brochures

eaton-sensors-brochure-br053001en-en-us.pdf

Catalogs

Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity

DA-DC-00004651.pdf

DA-DC-00004656.pdf

DA-DC-00004650.pdf

DA-DC-00004655.pdf

eCAD model

DA-CE-ETN.E57PS-12UPC4-C2

Installation instructions

eaton-inductive-proximity-sensors-e57g-il053003en.pdf

mCAD model

DA-CD-90_29320_008

DA-CS-90_29320_008

Multimedia

We make what matters

0

Number of outputs (semiconductor with signaling function)

1

Operational current (Ib) in the switched state at 24 V DC

10 A

Output current at protected output - max

0 mA

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Functions

Short-circuit protection

Voltage type

DC

Mounting method

Non-flush mounting

Material

Stainless steel

Connection type

2 m connection cable

3-wire

Installation type

Not flat

Degree of protection

NEMA 6P

IP69

Interface type

None

LED indicator

Status indication of Switching state: Yellow LED

Switch function type

Breaker contact

Load current

1 - 300 mA (Ie)

Shock resistance

30 g, Shock duration 11 ms, Half-Sinusoidal

Switching frequency

2000 Hz

Width sensor

0 mm

Product category

E57P Performance series

Switching output type

PNP

Temperature drift of sn

10 %

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

0 V

Rated control supply voltage (Us) at DC - max

30 V

Rated control supply voltage (Us) at DC - min

10 V

Rated switching distance (Sn) - max

4 mm

Repeatability

3 %

Sensor height

0 mm

Sensor length

40.9 mm

Supply voltage - max

30 V

Supply voltage - min

10 V

Switching hysteresis of Sn

20 %

Voltage drop (Ud)

2.5 V



Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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