Specifications

Eaton 197827

Catalog Number: 197827

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, NPN, Stainless steel, 2 m connection cable



General specifications

Product Name
Eaton Moeller® series E57PS Proximity switch

Catalog Number
197827

EAN
4015081949342

Product Length/Depth
64.1 mm

Product Height
12 mm

Product Width
12 mm

Product Weight
0.079 kg

Certifications
UL File No.: E166051
UL Category Control No.: NRKH, NRKH7

IEC/EN 60947-5-2
UL 508
UL Listed
CSA-C22.2 No. 14
Certified by UL for use in Canada

Powering Business Worldwide

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-00004650.pdf

DA-DC-00004655.pdf

DA-DC-00004656.pdf

eCAD model

DA-CE-ETN.E57PS-12UNC4-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

IP69

NEMA 6P

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

NPN

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



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