Specifications

Eaton 197781



Catalog Number: 197781

Eaton Moeller® series E57P Proximity switch, E57P Performance Serie, 1 N/O, 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 E57P Proximity switch

Catalog Number
197781

EAN
4015081948888

Product Length/Depth
64.1 mm

Product Height
12 mm

Product Width
12 mm

Product Weight
0.084 kg

Certifications
UL 508
UL File No.: E166051
IEC/EN 60947-5-2
CSA-C22.2 No. 14
UL Category Control No.: NRKH, NRKH7

Certified by UL for use in Canada
UL Listed

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 open 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-00004650.pdf

DA-DC-00004655.pdf

eCAD model

DA-CE-ETN.E57P-12UNN4-C2

Installation instructions

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

mCAD model

DA-CS-90_29320_004

DA-CD-90_29320_004

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

3-wire

2 m connection cable

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

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

64.1 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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