Specifications

Eaton 197780

Catalog Number: 197780

Eaton Moeller® series E57P Proximity switch, E57P Performance Serie, 1 NC, 3-wire, 10 – 48 V DC, M12 x 1 mm, Sn= 4 mm, Non-flush, NPN, Stainless steel, Plug-in connection M12 x 1



General specifications

Product Name
Eaton Moeller® series E57P Proximity switch

Catalog Number
197780

EAN
4015081948871

Product Length/Depth
68.7 mm

Product Height
12 mm

Product Width
12 mm

Product Weight
0.025 kg

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

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

Powering Business Worldwide

Product specifications

Type
Inductive sensor

Electric connection type
Connector M12

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-00004656.pdf

DA-DC-00004651.pdf

DA-DC-00004655.pdf

DA-DC-00004650.pdf

eCAD model
DA-CE-ETN.E57P-12UNC4-Q

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

mCAD model
DA-CS-90_29320_003

DA-CD-90_29320_003

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

Plug-in connection M12 x 1

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

48 V

Rated control supply voltage (Us) at DC - min

6 V

Rated switching distance (Sn) - max

4 mm

Repeatability

3 %

Sensor height

0 mm

Sensor length

68.7 mm

Supply voltage - max

48 V

Supply voltage - min

10 V

Switching hysteresis of Sn

20 %

Voltage drop (Ud)

2.5 V



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