Specifications

Eaton 197810

Catalog Number: 197810

Eaton Moeller® series E57P Proximity switch, E57P Performance Serie, 1 N/O, 3-wire, 10 – 48 V DC, M30 x 1.5 mm, Sn= 10 mm, Flush, PNP, Stainless steel, Plug-in connection M12 x 1



General specifications

Product Name
Eaton Moeller® series E57P Proximity switch

Catalog Number
197810

EAN
4015081949175

Product Length/Depth
70.9 mm

Product Height
30 mm

Product Width
30 mm

Product Weight
0.107 kg

Certifications
IEC/EN 60947-5-2
CSA-C22.2 No. 14
UL 508
Certified by UL for use in Canada
UL File No.: E166051
UL Category Control No.: NRKH, NRKH7

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
30 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-00004655.pdf

DA-DC-00004650.pdf

DA-DC-00004656.pdf

DA-DC-00004651.pdf

eCAD model
DA-CE-ETN.E57P-30SPN10-Q

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

mCAD model
DA-CD-90_29320_018

DA-CS-90_29320_018

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

Flush mounting

Material

Stainless steel

Connection type

3-wire

Plug-in connection M12 x 1

Installation type

Concise

Degree of protection

NEMA 6P

IP69

Interface type

None

LED indicator

Status indication of Switching state: Yellow LED

Switch function type

Normally open contact

Load current

1 - 300 mA (Ie)

Shock resistance

30 g, Shock duration 11 ms, Half-Sinusoidal

Switching frequency

600 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

48 V

Rated control supply voltage (Us) at DC - min

6 V

Rated switching distance (Sn) - max

10 mm

Repeatability

1 %

Sensor height

0 mm

Sensor length

70.9 mm

Supply voltage - max

48 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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