Specifications

Eaton 197830

Catalog Number: 197830

Eaton Moeller® series E57PS Proximity switch, E57P Performance Short Body Serie, 1 N/O, 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 E57PS Proximity switch

Catalog Number
197830

EAN
4015081949373

Product Length/Depth
68.7 mm

Product Height
12 mm

Product Width
12 mm

Product Weight
0.019 kg

Certifications
UL 508
UL File No.: E166051
UL Listed
Certified by UL for use in Canada
UL Category Control No.: NRKH, NRKH7

IEC/EN 60947-5-2
CSA-C22.2 No. 14

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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 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-00004651.pdf

DA-DC-00004655.pdf

DA-DC-00004656.pdf

DA-DC-00004650.pdf

eCAD model
DA-CE-ETN.E57PS-12UNN4-Q

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

mCAD model
DA-CD-90_29320_007

DA-CS-90_29320_007

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

Plug-in connection M12 x 1

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

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

45.6 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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