Specifications

Eaton 197850

Catalog Number: 197850

Eaton Moeller® series E57PS Proximity switch, E57P Performance Short Body Serie, 1 N/O, 3-wire, 10 – 48 V DC, M18 x 1 mm, Sn= 8 mm, Non-flush, PNP, Stainless steel, Plug-in connection M12 x 1



General specifications

Product Name
Eaton Moeller® series E57PS Proximity switch

Catalog Number
197850

EAN
4015081949571

Product Length/Depth
69.2 mm

Product Height
18 mm

Product Width
18 mm

Product Weight
0.042 kg

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

UL Listed
Certified by UL for use in Canada
UL File No.: E166051
UL 508

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

18 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-00004656.pdf

eCAD model

DA-CE-ETN.E57PS-18UPN8-Q

Installation instructions

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

mCAD model

DA-CS-90_29320_015

DA-CD-90_29320_015

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

IP69

NEMA 6P

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

1200 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

8 mm

Repeatability

3 %

Sensor height

0 mm

Sensor length

69.2 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

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



Eaton.com/socialmedia