Specifications

Eaton 197857

Catalog Number: 197857

Eaton Moeller® series E57PS Proximity switch, E57P Performance Short Body Serie, 1 N/O, 3-wire, 10 – 48 V DC, M30 x 1.5 mm, Sn= 10 mm, Flush, PNP, Stainless steel, 2 m connection cable



General specifications

Product Name
Eaton Moeller® series E57PS Proximity switch

Catalog Number
197857

EAN
4015081949649

Product Length/Depth
67.7 mm

Product Height
30 mm

Product Width
30 mm

Product Weight
0.136 kg

Certifications
IEC/EN 60947-5-2
UL File No.: E166051
UL Listed
UL Category Control No.: NRKH, NRKH7

Certified by UL for use in Canada
CSA-C22.2 No. 14
UL 508

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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
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-00004651.pdf

DA-DC-00004656.pdf

eCAD model
DA-CE-ETN.E57PS-30SPN10-C2

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

mCAD model
DA-CS-90_29320_021

DA-CD-90_29320_021

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

2 m connection cable

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

30 V

Rated control supply voltage (Us) at DC - min

10 V

Rated switching distance (Sn) - max

10 mm

Repeatability

1 %

Sensor height

0 mm

Sensor length

67.7 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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