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Specifications

# Eaton 197838

## Catalog Number: 197838

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= 5 mm, Flush, NPN, Stainless steel, Plug-in connection M12 x 1



### General specifications

**Product Name**
Eaton Moeller® series E57PS Proximity switch

**Catalog Number**
197838

**EAN**
4015081949458

**Product Length/Depth**
69.2 mm

**Product Height**
18 mm

**Product Width**
18 mm

**Product Weight**
0.042 kg

**Certifications**
UL Category Control No.: NRKH, NRKH7

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

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-18SNN5-Q

**Installation instructions**

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

**mCAD model**

DA-CD-90_29320_013

DA-CS-90_29320_013

**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

Breaker 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

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

5 mm

Repeatability

1 %

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

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