Specifications

# Eaton 197814

## Catalog Number: 197814

Eaton Moeller® series E57P Proximity switch, E57P Performance Serie, 1 N/O, 3-wire, 10 – 48 V DC, M30 x 1.5 mm, Sn= 15 mm, Non-flush, NPN, Stainless steel, Plug-in connection M12 x 1



## General specifications

**Product Name**
Eaton Moeller® series E57P Proximity switch

**Catalog Number**
197814

**EAN**
4015081949212

**Product Length/Depth**
70.9 mm

**Product Height**
30 mm

**Product Width**
30 mm

**Product Weight**
0.107 kg

**Certifications**
UL 508
UL File No.: E166051
UL Listed
IEC/EN 60947-5-2
UL Category Control No.: NRKH, NRKH7

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

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-00004651.pdf

DA-DC-00004656.pdf

DA-DC-00004655.pdf

DA-DC-00004650.pdf

### eCAD model

DA-CE-ETN.E57P-30UNN15-Q

### Installation instructions

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

### mCAD model

DA-CS-90_29320_020

DA-CD-90_29320_020

### 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

3-wire

Plug-in connection M12 x 1

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

500 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

15 mm

Repeatability

3 %

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




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