Specifications

# Eaton 197702

## Catalog Number: 197702

Eaton Moeller® series E57G Proximity switch, E57G General Purpose Serie, 1 NC, 3-wire, 10 - 30 V DC, M12 x 1 mm, Sn= 8 mm, Non-flush, PNP, Stainless steel, Plug-in connection M12 x 1



## General specifications

**Product Name**
Eaton Moeller® series E57G Proximity switch

**Catalog Number**
197702

**EAN**
4015081948093

**Product Length/Depth**
68.7 mm

**Product Height**
12 mm

**Product Width**
12 mm

**Product Weight**
0.027 kg

**Certifications**
CSA-C22.2 No. 14
IEC/EN 60947-5-2
UL Listed
Certified by UL for use in Canada
UL 508
UL Category Control No.: NRKH, NRKH7

UL File No.: E166051

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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
-25 °C

### Diameter sensor
12 mm

### Number of contact energized outputs with signalling function
0

### Number of contacts (normally closed 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-00004650.pdf

DA-DC-00004655.pdf

DA-DC-00004656.pdf

### eCAD model
DA-CE-ETN.E57G-12UPC8-Q

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

### mCAD model
DA-CS-90_29320_003

DA-CD-90_29320_003

### 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 1

IP67

Interface type

None

LED indicator

Status indication of Switching state: Yellow LED

Switch function type

Breaker contact

Load current

Max. 100 mA (Ie)

Shock resistance

30 g, Shock duration 11 ms, Half-Sinusoidal

Switching frequency

500 Hz

Width sensor

0 mm

Product category

E57G General purpose 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

68.7 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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