Specifications

# Eaton 135850



## Catalog Number: 135850

Eaton Moeller® series E57 Proximity switch, E57 Global Series, 1 NC, 3-wire, 10 - 30 V DC, M8 x 1 mm, Sn= 3 mm, Flush, NPN, Stainless steel, 2 m connection cable

### General specifications

**Product Name**
Eaton Moeller® series E57 Proximity switch

**Catalog Number**
135850

**EAN**
4015081326433

**Product Length/Depth**
166.62 mm

**Product Height**
12.7 mm

**Product Width**
139.7 mm

**Product Weight**
0.14 kg

**Certifications**
CE
UL 508
CSA Class No.: 4652-04 / 4652-84
CSA File No.: 224447
IEC/EN 60947-5-2
UL File No.: CSA report applies to both US and Canada
CSA
CSA-C22.2 No. 14

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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
-25 °C

### Diameter sensor
8 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-00004656.pdf

DA-DC-00004651.pdf

### Drawings
eaton-proximity-switches-e57-proximity-switch-3d-drawing.eps

### eCAD model
DA-CE-ETN.E57-08GBE03-C

### Installation instructions
IL05301002Z

### 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

Protection against polarity reversal

Protection against wire breakage

Voltage type

DC

Mounting method

Flush mounting

Material

Stainless steel

Connection type

2 m connection cable

3-wire

Installation type

Concise

Degree of protection

IP69

IP67

NEMA Other

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Switch function type

Breaker contact

Load current

Max. 100 mA (Ie)

Residual current

0.01 mA (through the load in the blocked state at 230 V AC and 24 V DC)

Residual ripple

10 % ($U_e$)

Shock resistance

30 g, Mechanical, Shock duration 11 ms

Switching frequency

2000 Hz

Voltage rating - max

30 V

Width sensor

0 mm

Product category

E57 Global 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

30 V

Rated control supply voltage (Us) at DC - min

10 V

Rated switching distance (Sn) - max

3 mm

Repeatability

1 %

Sensor height

0 mm

Sensor length

46 mm

Supply voltage - max

30 V

Supply voltage - min

10 V

Switching hysteresis of Sn

15 %

Voltage drop (Ud)

1.5 V

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