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Specifications

# Eaton 135820



## Catalog Number: 135820

Eaton Moeller® series E55 Proximity switch, inductive, 1N/O, Sn=2mm, 3L, 10-30VDC, PNP, M12, insulated material, line 2m

### General specifications

**Product Name**
Eaton Moeller® series E55 Proximity switch

**Catalog Number**
135820

**EAN**
4015081326136

**Product Length/Depth**
165.1 mm

**Product Height**
12.7 mm

**Product Width**
139.7 mm

**Product Weight**
0.16 kg

**Certifications**
CE
IEC/EN 60947-5-2

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## Product specifications

### Type
Inductive sensor

### Electric connection type
Cable

### Enclosure material finishing
Other

### Actuation type
Metallic Target

### Enclosure material
Plastic

### 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 open contacts)
1

### Number of outputs (protected contact energized)
0

### Number of outputs (protected semiconductor)

## Resources

### Catalogs
Product Range Catalog Sensors – products, basic information, applications

### Declarations of conformity
DA-DC-00004656.pdf

DA-DC-00004651.pdf

### Drawings
eaton-proximity-switches-e55-proximity-switch-dimensions.eps

131I090

### Installation instructions
IL05301005Z

### 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

3 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

Voltage type

DC

Mounting method

Flush mounting

Material

Insulated material

Connection type

2 m connection cable

3-wire

Installation type

Concise

Degree of protection

IP66

NEMA 4X, 13

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Switch function type

Normally open contact

Load current

Max. 200 mA (Ie)

Residual ripple

10 % ($U_e$)

Shock resistance

30 g, Mechanical, Shock duration 11 ms

Supply frequency

50 Hz, Input, min. Range

60 Hz, Input, max. Range

Switching frequency

2000 Hz

Voltage rating - max

30 V

Width sensor

0 mm

Product category

E55 Limit Switch Style 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

2 mm

Repeatability

10 %

Sensor height

0 mm

Sensor length

55 mm

Supply voltage - max

30 V

Supply voltage - min

10 V

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Switching hysteresis of Sn

20 %

Voltage drop (Ud)

8 V

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