Specifications

# Eaton 135649

## Catalog Number: 135649

Eaton Moeller® series E58 Retroflective sensing sensor, Sn=4500mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12



### General specifications

**Product Name**
Eaton Moeller® series E58 Retroreflective sensor

**Catalog Number**
135649

**EAN**
4015081324422

**Product Length/Depth**
38.1 mm

**Product Height**
38.1 mm

**Product Width**
38.1 mm

**Product Weight**
0.23 kg

**Certifications**
CSA File No.: 50513
UL 508
UL File No.: E117028
UL
UL Category Control No.: NRKH, NRKH7

CSA-C22.2 No. 14
CSA
IEC/EN 60947-5-2
CSA Class No.: 3211-07
CE

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## Product specifications

### Type

Optical sensors

### Features

Straight beam

Polarized light

### Electric connection type

Connector M12

### Enclosure material

Plastic

### Enclosure type

Cylinder, screw-thread

### Operating mode

Switching principle: Adjustable bright/dark switching

### Explosion safety category for dust

None

### Explosion safety category for gas

None

### Functions

Reflected-light beam

Protection against polarity reversal

Short-circuit protection

For combination with reflector

### Voltage type

DC

### Connection type

4-wire

Plug-in connection M12 x 1

### Light type

Polarity free red light

### Degree of protection

IP67

NEMA 6

### Interface type

Other

### LED indicator

Status indication of Switching state: Red LED

## Resources

### Catalogs

Product Range Catalog Sensors – products, basic information, applications

### Declarations of conformity

DA-DC-00004657.pdf

DA-DC-00004652.pdf

### Drawings

eaton-proximity-switches-dimensions-002.eps

eaton-proximity-switches-dimensions-008.eps

eaton-proximity-switches-3d-drawing-004.eps

### Installation instructions

IL05305002Z

### mCAD model

DA-CS-90_28267_113

DA-CD-90_28267_113

Switch function type

Programmable/configurable

Load current

Max. 250 mA (Ie, NPN, 120 > 50°C)

Max. 100 mA (Ie, PNP)

Laser protection class

None

Shock resistance

100 g, Mechanical, Shock duration 3 ms

Optical surface material

Plastic

Output current (mA) - max

100 mA

Output current at protected output - max

0 mA

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

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)

4500 mm

Reflector distance - min

0 mm

Sensor height

0 mm

Sensor length

67 mm

Switching distance - max

0 mm

Switching voltage of OSSD at state high

0 V

Transmission range of the safety field

0 m

Voltage rating - max

30 V

Safety type (IEC 61496-1)

1

Switching frequency

500 Hz

Sensing mode

Light-/dark switching

Switching output type

PNP

Sensor material

Insulated material

Wavelength of the sensor

0 nm

Width sensor

0 mm

Product category

Comet Series

Response time

1 ms

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-40 °C

Diameter sensor

18 mm

Light dot size

0 mm²

Number of contact energized outputs with signalling function

0

Number of outputs (protected contact energized)

0

Number of outputs (protected semiconductor)

0

Number of outputs (semiconductor with signaling function)

2

Operational current (Ib) in the switched state at 24 V DC

30 A

Adjustment type

Manual adjustment

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Dublin 4, Ireland
Eaton.com

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