

# Eaton 135589

Catalog Number: 135589

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=100mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12 13101AQD07

## General specifications



### Product Name

Eaton Moeller® series E58 Diffuse reflective sensor

### Catalog Number

135589

### EAN

4015081323821

### Product Length/Depth

127 mm

### Product Height

50.8 mm

### Product Width

152.4 mm

### Product Weight

0.3 kg

### Certifications

UL 508

CSA-C22.2 No. 14

CSA File No.: 50513

CSA

UL Category Control No.: NRKH, NRKH7

CE

UL File No.: E117028

UL

CSA Class No.: 3211-07

IEC/EN 60947-5-2

## Product specifications

### Type

Optical sensors

### Features

Straight beam

### Electric connection type

Plug-in connection

### Fitted with:

Background suppression (Perfect Prox)

### 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

Short-circuit protection

Protection against polarity reversal

### Voltage type

DC

### Wire size

22

### Connection type

Plug-in connection M12 x 1

4-wire

### Cable sheath material

Other

### Light type

Infrared light

### Degree of protection

NEMA 6

IP67

## 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-007.eps

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

### Installation instructions

IL05305002Z

### mCAD model

DA-CS-90\_28267\_107

DA-CD-90\_28267\_107

#### Interface type

Other

#### LED indicator

Status indication of Switching state: Red LED

#### Switch function type

Programmable/configurable

#### Load current

Max. 250 mA (I<sub>e</sub>, NPN, 120 > 50°C)

Max. 100 mA (I<sub>e</sub>, PNP)

#### Laser protection class

None

#### Operation agent-safety class

Safety class 2

#### Shock resistance

100 g, Mechanical, Shock duration 3 ms

#### Optical surface material

Plastic

#### Output current (mA) - max

250 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)

100 mm

#### Reflector distance - min

0 mm

Sensor height

0 mm

Sensor length

66 mm

Switching distance - max

100 mm

Switching voltage of OSSD at state high

30 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

Triangulation

Background fade-out

Wavelength of the sensor

0 nm

Width sensor

0 mm

Product category

Comet Series

Response time

1 ms

Adjustment range - max

0 mm

Adjustment range - min

0 mm

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-40 °C

Diameter sensor

18 mm

Light dot size

0 mm<sup>2</sup>

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

Operating distance - max

0 mm

Operating distance - min

0 mm

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

30 A

Adjustment type

Other



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