

# Eaton 135662

Catalog Number: 135662

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=100mm, 2L, 18-50VDC, dark, M18, metal, M12

### General specifications



| Product Name                                        | Catalog Number |
|-----------------------------------------------------|----------------|
| Eaton Moeller® series E58 Diffuse reflective sensor | 135662         |
|                                                     | EAN            |
|                                                     | 4015081324552  |
| Product Length/Depth                                | Product Height |
| 25.4 mm                                             | 25.4 mm        |
| Product Width                                       | Product Weight |
| 25.4 mm                                             | 0.45 kg        |

### Certifications

CE  
Certified by UL for use in Canada  
IEC/EN 60947-5-2  
UL 508  
CSA-C22.2 No. 14  
UL File No.: E166051  
CSA File No.: UL report applies to both  
US and Canada  
UL  
UL Category Control No.: NRKH, NRKH7

## Product specifications

### Type

Optical sensors

### Electric connection type

Connector M12

### Fitted with:

Background suppression (Perfect Prox)

### Enclosure material

Metal

### Enclosure type

Cylinder, screw-thread

### Operating mode

Switching principle: Dark switching

### Explosion safety category for dust

None

### Explosion safety category for gas

None

### Functions

Short-circuit protection

Reflected-light beam

Protection against wire breakage

Protection against polarity reversal

### Voltage type

DC

### Wire size

0

### Connection type

Plug-in connection M12 x 1

2-wire

### Cable sheath material

Other

### Light type

Other

### Degree of protection

NEMA 6

IP68

### Interface type

## 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-e58-diffuse-reflective-sensor-dimensions.eps](#)

[eaton-proximity-switches-e58-diffuse-reflective-sensor-3d-drawing.eps](#)

### Installation instructions

[IL05305003Z](#)

Other

#### LED indicator

Status indication of Switching state: Red LED

#### Switch function type

Other

#### Load current

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

#### Laser protection class

None

#### Operation agent-safety class

Safety class 2

#### Shock resistance

100 g, Mechanical, Shock duration 3 ms

#### Optical surface material

Glass

#### Output current (mA) - max

250 mA

#### Output current at protected output - max

0 mA

#### Rated control supply voltage (U<sub>s</sub>) at AC, 50 Hz - max

0 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 50 Hz - min

0 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 60 Hz - max

0 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 60 Hz - min

0 V

#### Rated control supply voltage (U<sub>s</sub>) at DC - max

30 V

#### Rated control supply voltage (U<sub>s</sub>) at DC - min

10 V

#### Rated switching distance (S<sub>n</sub>)

100 mm

#### Reflector distance - min

0 mm

#### Sensor height

0 mm

Sensor length

80 mm

Switching distance - max

127 mm

Switching voltage of OSSD at state high

30 V

Transmission range of the safety field

0 m

Voltage rating - max

50 V

Safety type (IEC 61496-1)

1

Switching frequency

500 Hz

Sensing mode

Dark switching

Switching output type

PNP/NPN

Sensor material

Stainless steel

Triangulation

Background fade-out

Wavelength of the sensor

660 nm

Width sensor

0 mm

Product category

E58 Harsh Duty Series

Response time

1.6 ms

Adjustment range - max

100 mm

Adjustment range - min

0 mm

Ambient operating temperature - max

55 °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

Operating distance - max

0 mm

Operating distance - min

0 mm

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

1.7 A

Adjustment type

Other



Eaton Corporation plc  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
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