Specifications

# Eaton 135680



## Catalog Number: 135680

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=280mm, 4L, 10-30VDC, dark, NPN, PNP, M30, metal, line 2m

### General specifications

**Product Name**
Eaton Moeller® series E58 Diffuse reflective sensor

**Catalog Number**
135680

**EAN**
4015081324736

**Product Length/Depth**
38.1 mm

**Product Height**
38.1 mm

**Product Width**
38.1 mm

**Product Weight**
0.23 kg

**Certifications**
UL File No.: E166051
Certified by UL for use in Canada
CE
CSA-C22.2 No. 14
UL Category Control No.: NRKH, NRKH7

UL 508
UL
CSA File No.: UL report applies to both US and Canada
IEC/EN 60947-5-2

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## Product specifications

### Type

Optical sensors

### Electric connection type

Cable

### 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

Protection against polarity reversal
Short-circuit protection
Reflected-light beam
Protection against wire breakage

### Voltage type

DC

### Wire size

22

### Connection type

2 m connection cable
4-wire

### Cable sheath material

Polyvinyl chloride (PVC)

### 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-00004652.pdf

DA-DC-00004657.pdf

### Drawings

eaton-proximity-switches-e58-diffuse-reflective-sensor-dimensions-002.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 (Ie)

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

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)

280 mm

Reflector distance - min

0 mm

Sensor height

0 mm

Sensor length

111 mm

Switching distance - max

318 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

312 Hz

Sensing mode

Dark switching

Switching output type

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

280 mm

Adjustment range - min

0 mm

Ambient operating temperature - max

55 °C

Ambient operating temperature - min

-40 °C

Diameter sensor

30 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

Adjustment type

Other

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