

# Eaton 135729

Catalog Number: 135729

Eaton Moeller® series E65 Diffuse reflective sensor, Sn=200mm, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material, M12 E65-SMSD200-HLD

## General specifications



Product Name	Catalog Number
Eaton Moeller® series E65 Diffuse reflective sensor	135729
	EAN
	4015081325221
Product Length/Depth	Product Height
139.7 mm	139.7 mm
Product Width	Product Weight
38.1 mm	0.11 kg
Certifications	Catalog Notes
UL File No.: E166051	Yellow
UL Category Control No.: NRKH, NRKH7	

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

## Product specifications

### Type

Optical sensors

### Electric connection type

Connector M12

### Enclosure material

Plastic

### Enclosure type

Cuboid

### Operating mode

Switching principle: Light switching

### Explosion safety category for dust

None

### Explosion safety category for gas

None

### Functions

Reflected-light beam

Protection against wire breakage

Protection against polarity reversal

Short-circuit protection

### Voltage type

DC

### Wire size

0

### Connection type

Plug-in connection M12 x 1

4-wire

### Cable sheath material

Other

### Light type

Polarity free red light

### Degree of protection

IP68

NEMA 6P, 13

### Interface type

Other

### LED indicator

## 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-e65-diffuse-reflective-sensor-dimensions.eps

eaton-proximity-switches-dimensions-012.eps

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

### Installation instructions

IL05305004Z

### mCAD model

DA-CD-90\_28290\_012

DA-CS-90\_28290\_012

Status indication of Operating voltage: Green LED

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

50 g, Mechanical, Shock duration 10 ms

#### Optical surface material

Plastic

#### Output current (mA) - max

100 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>)

200 mm

#### Reflector distance - min

0 mm

#### Sensor height

55 mm

#### Sensor length

41 mm

Switching distance - max

200 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

Dark switching

Switching output type

PNP/NPN

Sensor material

Insulated material

Wavelength of the sensor

660 nm

Width sensor

33 mm

Product category

E65 SM Series

Response time

1 ms

Ambient operating temperature - max

55 °C

Ambient operating temperature - min

-25 °C

Ambient storage temperature - max

70 °C

Ambient storage temperature - min

-25 °C

Diameter sensor

0 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

Operating temperature - max

55 °C

Operating temperature - min

-25 °C

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

20 A

Adjustment type

Other



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