Specifications

Eaton 135731



Catalog Number: 135731

Eaton Moeller® series E65 Thru-beam photoelectric sensor, receiver, Sn=15m, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material E65-SMTD15-HDD

General specifications

Product Name
Eaton Moeller® series E65 Thru-beam photoelectric sensor

Catalog Number
135731

EAN
4015081325245

Product Length/Depth
139.7 mm

Product Height
139.7 mm

Product Width
38.1 mm

Product Weight
0.11 kg

Certifications
Certified by UL for use in Canada
UL 508
IEC/EN 60947-5-2
CE
UL Category Control No.: NRKH, NRKH7

CSA-C22.2 No. 14
CSA File No.: UL report applies to both US and Canada
UL
UL File No.: E166051

Catalog Notes
Yellow

Powering Business Worldwide

Product specifications

Type

Optical sensors

Device type

Receiver

Electric connection type

Connector M12

Enclosure material

Plastic

Enclosure type

Cuboid

Operating mode

Switching principle: Dark switching

Explosion safety category for dust

None

Explosion safety category for gas

None

Functions

Thru-light beam
Detector (for combination with source)
Protection against polarity reversal
For combination with transmitter
Protection against wire breakage
Short-circuit protection

Voltage type

DC

Wire size

0

Connection type

4-wire
Plug-in connection M12 x 1

Cable sheath material

Polyvinyl chloride (PVC)

Light type

Polarity free red light

Degree of protection

NEMA 4X
IP68

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-012.eps

eaton-proximity-switches-e65-diffuse-reflective-sensor-dimensions.eps

eaton-proximity-switches-e65-3d-drawing.eps

Installation instructions

IL05305004Z

mCAD model

DA-CD-90_28290_012

DA-CS-90_28290_012

Interface type

Other

LED indicator

Status indication of Operating voltage: Green LED

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

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 (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)

15000 mm

Reflector distance - min

0 mm

Sensor height

55 mm

Sensor length

41 mm

Switching distance - max

15000 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

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

Opening angle

0 °

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

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