Specifications

Eaton 135703

Catalog Number: 135703

Eaton Moeller® series E65 Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material, M12



General specifications

Product Name
Eaton Moeller® series E65 Diffuse reflective sensor

Catalog Number
135703

EAN
4015081324965

Product Length/Depth
139.7 mm

Product Height
139.7 mm

Product Width
38.1 mm

Product Weight
0.11 kg

Certifications
UL File No.: E166051
Certified by UL for use in Canada
UL
UL Category Control No.: NRKH, NRKH7

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

Catalog Notes
Yellow

Powering Business Worldwide

Product specifications

Type

Optical sensors

Electric connection type

Plug-in connection

Fitted with:

Background suppression (Perfect Prox)

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

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

Voltage type

DC

Wire size

0

Connection type

Plug-in connection M12 x 1
4-wire

Cable sheath material

Other

Light type

Other

Degree of protection

IP68
NEMA 6

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-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_004

DA-CS-90_28290_004

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

100 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)

50 mm

Reflector distance - min

0 mm

Sensor height

55 mm

Sensor length

41 mm

Switching distance - max

50 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

Triangulation

Background fade-out

Wavelength of the sensor

660 nm

Width sensor

33 mm

Product category

E65 SM Series

Response time

1 ms

Adjustment range - max

50 mm

Adjustment range - min

0 mm

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)

1

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



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