Specifications

Eaton 135668



Catalog Number: 135668

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

General specifications

Product Name
Eaton Moeller® series E58 Diffuse reflective sensor

Catalog Number
135668

EAN
4015081324613

Product Length/Depth
152.4 mm

Product Height
44.45 mm

Product Width
152.4 mm

Product Weight
0.23 kg

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

CE
UL 508

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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

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

Voltage type

DC

Wire size

0

Connection type

2-wire
Plug-in connection M12 x 1

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 (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

250 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)

50 mm

Reflector distance - min

0 mm

Sensor height

0 mm

Sensor length

80 mm

Switching distance - max

57 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

50 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

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