

Eaton 13104AQD07

Catalog Number: 13104AQD07

Eaton Moeller® series Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, PNP, NPN, M18, insulated material, M12, Beam: straight

General specifications



Product Name

Eaton Moeller® series E58 Diffuse reflective sensor

Catalog Number

13104AQD07

Model Code

13104AQD07

UPC

782113843643

EAN

4015081323982

Product Length/Depth

127 mm

Product Height

50.8 mm

Product Width

152.4 mm

Product Weight

0.094 kg

Warranty

3 year

Certifications

cUL Recognized

UL Recognized

UL 508

CSA Class No.: 3211-07

UL

CSA-C22.2 No. 14

UL Category Control No.: NRKH, NRKH7

UL File No.: E117028

IEC/EN 60947-5-2

CSA

CE

CSA File No.: 50513

Product specifications

Type

Optical sensors

Contact Rating

100 mA PNP, 250 mA NPN at 10-30 Vdc

Features

Straight beam

Electric connection type

Connector M12

Fitted with:

Background suppression (Perfect Prox)

Enclosure material

Polyurethane foam (RIM)

Plastic

Enclosure type

Cylinder, screw-thread

Operating mode

Switching principle: Adjustable bright/dark switching

Connection

M12

Contact configuration

NPN and PNP open collector

Series

Comet

Explosion safety category for dust

None

Sensor type

Back ground suppression

Explosion safety category for gas

None

Functions

Protection against polarity reversal

Short-circuit protection

Reflected-light beam

Voltage type

DC

Wire size

Resources

Catalogs

Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity

DA-DC-00004652.pdf

DA-DC-00004657.pdf

Drawings

1360DIM-193

eaton-proximity-switches-dimensions-007.eps

1360DIM-188

eaton-proximity-switches-dimensions-002.eps

Drawings

1360DRW-32

eaton-proximity-switches-3d-drawing-004.eps

Installation instructions

IL05305002Z

mCAD model

eaton-cadenas-front_view-90_28267_110_front.pra

eaton-cadenas-path-sensoren-assemblies-90_28267_110_asmtpl.prj

DA-CD-90_28267_110

DA-CS-90_28267_110

eaton-cadenas-side_view-90_28267_110_side.pra

Specifications and datasheets

Eaton Specification Sheet - 13104AQD07

22

Connection type

4-wire

Plug-in connection M12 x 1

Input voltage

10-30 Vdc

Cable sheath material

Other

Light type

Polarity free red light

Degree of protection

NEMA 6

IP67

Interface type

Other

LED indicator

Output ON

Status indication of Switching state: Red LED

Switch function type

Programmable/configurable

Load current

Max. 100 mA (Ie, PNP)

Max. 250 mA (Ie, NPN, 120 > 50°C)

Laser protection class

None

Operation agent-safety class

Safety class 2

Shock resistance

100 g, Mechanical, Shock duration 3 ms

Optical surface material

Plastic

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

66 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

Light-/dark switching

Switching output type

PNP/NPN

Sensor material

Insulated material

Triangulation

Background fade-out

Wavelength of the sensor

0 nm

Width sensor

0 mm

Product category

Comet Series

Number of pins

4

Protection

Auto reset short circuit

Response time

1 ms

Maximum DC current

100 mA PNP, 250 mA NPN

Adjustment range - max

0 mm

Adjustment range - min

0 mm

Ambient operating temperature - max

70 °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

Operating temperature - max

158 °F

Operating temperature - min

-40 °F

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

30 A

Environmental rating

NEMA 1, NEMA 3, NEMA 4, NEMA 4X, NEMA 6, NEMA 12,
NEMA 13, IP69K

Adjustment type

Other



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Interface type

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Status indication of Switching state: Red LED

Switch function type

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Load current

Max. 100 mA (Ie, PNP)

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Laser protection class

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Operation agent-safety class

Safety class 2

Shock resistance

100 g, Mechanical, Shock duration 3 ms

Optical surface material

Plastic

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Output current at protected output - max

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Rated control supply voltage (Us) at AC, 50 Hz - max

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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

66 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

Light-/dark switching

Switching output type

PNP/NPN

Sensor material

Insulated material

Triangulation

Background fade-out

Wavelength of the sensor

0 nm

Width sensor

0 mm

Product category

Comet Series

Number of pins

4

Protection

Auto reset short circuit

Response time

1 ms

Maximum DC current

100 mA PNP, 250 mA NPN

Adjustment range - max

0 mm

Adjustment range - min

0 mm

Ambient operating temperature - max

70 °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

Operating temperature - max

158 °F

Operating temperature - min

-40 °F

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

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Adjustment type

Other



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