

# 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-00004657.pdf

DA-DC-00004652.pdf

### Drawings

eaton-proximity-switches-dimensions-007.eps

eaton-proximity-switches-dimensions-002.eps

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

### Installation instructions

IL05305002Z

### mCAD model

DA-CD-90\_28267\_110

DA-CS-90\_28267\_110

### 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 mm<sup>2</sup>

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



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

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



[Eaton.com/socialmedia](https://www.eaton.com/socialmedia)