Specifications

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

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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

Brochures
Comet series - Photoelectric sensors

Catalogs
Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity
DA-DC-00004652.pdf

DA-DC-00004657.pdf

Drawings
eaton-proximity-switches-dimensions-002.eps

eaton-proximity-switches-dimensions-007.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

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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

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

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