

Eaton 13100AQD07

Catalog Number: 13100AQD07

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=610mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12

General specifications



Product Name

Eaton Moeller® series E58 Diffuse reflective sensor

Catalog Number

13100AQD07

Model Code

13100AQD07

UPC

782113843551

EAN

4015081323746

Product Length/Depth

158.75 mm

Product Height

50.8 mm

Product Width

133.35 mm

Product Weight

0.091 kg

Warranty

3 year

Certifications

UL Recognized

cUL Recognized

CE

UL

CSA Class No.: 3211-07

CSA File No.: 50513

UL Category Control No.: NRKH, NRKH7

UL 508

CSA

CSA-C22.2 No. 14

IEC/EN 60947-5-2

UL File No.: E117028

Product specifications

Type

Optical sensors

Contact Rating

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

Features

Straight beam

Electric connection type

Plug-in connection

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

Explosion safety category for dust

None

Sensor type

Diffuse reflective

Explosion safety category for gas

None

Functions

Reflected-light beam

Protection against polarity reversal

Short-circuit protection

Voltage type

DC

Wire size

22

Connection type

Plug-in connection M12 x 1

4-wire

Resources

Catalogs

Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity

DA-DC-00004652.pdf

DA-DC-00004657.pdf

Drawings

1360DIM-189

1360DIM-188

eaton-proximity-switches-dimensions-002.eps

eaton-proximity-switches-dimensions-003.eps

Drawings

1360DRW-35

eaton-proximity-switches-3d-drawing-007.eps

Installation instructions

IL05305002Z

mCAD model

DA-CS-90_28267_104

eaton-cadenas-path-sensoren-assemblies-90_28267_104_asmtpl.prj

eaton-cadenas-front_view-90_28267_104_front.pra

DA-CD-90_28267_104

eaton-cadenas-side_view-90_28267_104_side.pra

Specifications and datasheets

Eaton Specification Sheet - 13100AQD07

Input voltage

10-30 Vdc

Cable sheath material

Polyvinyl chloride (PVC)

Light type

Infrared light

Degree of protection

IP67

NEMA 6

Interface type

Other

LED indicator

Output ON

Status indication of Switching state: Red LED

Switch function type

Other

Load current

Max. 250 mA (Ie, NPN, 120 > 50°C)

Max. 100 mA (Ie, PNP)

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)

610 mm

Reflector distance - min

0 mm

Sensor height

0 mm

Sensor length

56 mm

Switching distance - max

610 mm

Switching voltage of OSSD at state high

0 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

Wavelength of the sensor

0 nm

Width sensor

0 mm

Accessories

Can be expanded with fibre optic cable.

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

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 (I_b) 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

Manual adjustment



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

© 2025 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)

Eaton 13100AQD07

Catalog Number: 13100AQD07

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=610mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12

General specifications



Product Name

Eaton Moeller® series E58 Diffuse reflective sensor

Catalog Number

13100AQD07

Model Code

13100AQD07

UPC

782113843551

EAN

4015081323746

Product Length/Depth

158.75 mm

Product Height

50.8 mm

Product Width

133.35 mm

Product Weight

0.091 kg

Warranty

3 year

Certifications

UL Recognized

cUL Recognized

CE

UL

CSA Class No.: 3211-07

CSA File No.: 50513

UL Category Control No.: NRKH, NRKH7

UL 508

CSA

CSA-C22.2 No. 14

IEC/EN 60947-5-2

UL File No.: E117028

Product specifications

Type

Optical sensors

Contact Rating

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

Features

Straight beam

Electric connection type

Plug-in connection

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

Explosion safety category for dust

None

Sensor type

Diffuse reflective

Explosion safety category for gas

None

Functions

Reflected-light beam

Protection against polarity reversal

Short-circuit protection

Voltage type

DC

Wire size

22

Connection type

Plug-in connection M12 x 1

4-wire

Resources

Catalogs

Product Range Catalog Sensors – products, basic information, applications

Declarations of conformity

DA-DC-00004652.pdf

DA-DC-00004657.pdf

Drawings

1360DIM-189

1360DIM-188

eaton-proximity-switches-dimensions-002.eps

eaton-proximity-switches-dimensions-003.eps

Drawings

1360DRW-35

eaton-proximity-switches-3d-drawing-007.eps

Installation instructions

IL05305002Z

mCAD model

DA-CS-90_28267_104

eaton-cadenas-path-sensoren-assemblies-90_28267_104_asmtpl.prj

eaton-cadenas-front_view-90_28267_104_front.pra

DA-CD-90_28267_104

eaton-cadenas-side_view-90_28267_104_side.pra

Specifications and datasheets

Eaton Specification Sheet - 13100AQD07

Input voltage

10-30 Vdc

Cable sheath material

Polyvinyl chloride (PVC)

Light type

Infrared light

Degree of protection

IP67

NEMA 6

Interface type

Other

LED indicator

Output ON

Status indication of Switching state: Red LED

Switch function type

Other

Load current

Max. 250 mA (Ie, NPN, 120 > 50°C)

Max. 100 mA (Ie, PNP)

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)

610 mm

Reflector distance - min

0 mm

Sensor height

0 mm

Sensor length

56 mm

Switching distance - max

610 mm

Switching voltage of OSSD at state high

0 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

Wavelength of the sensor

0 nm

Width sensor

0 mm

Accessories

Can be expanded with fibre optic cable.

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

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

Manual adjustment



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

© 2025 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)