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Specifications

Eaton 136212



Catalog Number: 136212

Eaton Moeller® series E59 Proximity switch, inductive, 1 N/C, Sn=10mm, 4L, 6-48VDC, NPN, PNP, M12, metal E59-M12C110D01-D2

General specifications

Product Name
Eaton E59 AccuProx analog inductive proximity sensor

Catalog Number
136212

EAN
4015081330058

Product Length/Depth
152.4 mm

Product Height
44.45 mm

Product Width
127 mm

Product Weight
0.45 kg

Certifications

Certified by UL for use in Canada
UL File No.: E166051
UL 508
IEC/EN 60947-5-2
UL
UL Category Control No.: NRKH, NRKH7

CE
CSA-C22.2 No. 14
CSA File No.: UL report applies to both US and Canada

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Product specifications

Type

Inductive sensor

Electric connection type

Connector M12

Enclosure material finishing

Other

Actuation type

Metallic Target

Enclosure material

Metal

Enclosure type

Cylinder, screw-thread

Category (EN 954-1)

B

Explosion safety category for dust

None

Explosion safety category for gas

None

Safety performance level (EN ISO 13849-1)

None

SIL (IEC 61508)

None

Ambient operating temperature - max

70 °C

Ambient operating temperature - min

-40 °C

Diameter sensor

12 mm

Number of contact energized outputs with signalling function

0

Number of contacts (normally closed contacts)

1

Number of outputs (protected contact energized)

0

Number of outputs (protected semiconductor)

Resources

Brochures

eaton-sensors-brochure-br053001en-en-us.pdf

Declarations of conformity

DA-DC-00004651.pdf

DA-DC-00004656.pdf

Drawings

eaton-proximity-switches-e59-proximity-switch-dimensions-008.eps

eaton-proximity-switches-e57-proximity-switch-3d-drawing-002.eps

Installation instructions

IL05301004Z

Multimedia

We make what matters

0

Number of outputs (semiconductor with signaling function)

1

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

15 A

Output current at protected output - max

0 mA

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

0 V

Functions

Protection against polarity reversal
Short-circuit protection
Protection against wire breakage

Voltage type

DC

Mounting method

Non-flush mounting

Material

Stainless steel

Connection type

Plug-in connection M12 x 1
3-wire

Installation type

Not flat

Degree of protection

IP67
IP69
NEMA 4X, 6, 13

Interface type

None

LED indicator

Status indication of Operating voltage: Green LED
Status indication of Switching state: Red LED

Switch function type

Breaker contact

Load current

1 - 300 mA (Ie)

Residual current

0.15 mA (through the load in the blocked state at 230 V AC and

24 V DC)

Shock resistance

30 g, Mechanical, Shock duration 11 ms

Switching frequency

300 Hz

Voltage rating - max

48 V

Width sensor

0 mm

Product category

iProx Series

Switching output type

PNP

Temperature drift of sn

10 %

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

48 V

Rated control supply voltage (Us) at DC - min

6 V

Rated switching distance (Sn) - max

10 mm

Repeatability

3 %

Sensor height

0 mm

Sensor length

69 mm

Supply voltage - max

48 V

Supply voltage - min

6 V

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Switching hysteresis of Sn

15 %

Voltage drop (Ud)

2.5 V

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