Specifications

Eaton 136209



Catalog Number: 136209

Eaton Moeller® series E59 Proximity switch, inductive, 1N/O, Sn=10mm, 4L, 6-48VDC, NPN, PNP, M12, metal E59-M12C110C02-D1

General specifications

Product Name
Eaton E59 AccuProx analog inductive proximity sensor

Catalog Number
136209

EAN
4015081330027

Product Length/Depth
152.4 mm

Product Height
44.45 mm

Product Width
127 mm

Product Weight
0.45 kg

Certifications
UL
UL File No.: E166051
UL Category Control No.: NRKH, NRKH7

CSA File No.: UL report applies to both US and Canada
IEC/EN 60947-5-2
UL 508
CSA-C22.2 No. 14
CE
Certified by UL for use in Canada

Powering Business Worldwide

Product specifications

Type
Inductive sensor

Electric connection type
Cable

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 open 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-00004656.pdf

DA-DC-00004651.pdf

Drawings
eaton-proximity-switches-e59-proximity-switch-dimensions-002.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

Short-circuit protection

Protection against polarity reversal

Protection against wire breakage

Voltage type

DC

Mounting method

Non-flush mounting

Material

Stainless steel

Connection type

3-wire

2 m connection cable

Installation type

Not flat

Degree of protection

IP69

IP67

NEMA 4X, 6, 13

Interface type

None

LED indicator

Status indication of Switching state: Red LED

Status indication of Operating voltage: Green LED

Switch function type

Normally open 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

NPN

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

62 mm

Supply voltage - max

48 V

Supply voltage - min

6 V

Switching hysteresis of Sn

15 %

Voltage drop (Ud)

2.5 V

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