Specifications

Eaton 136208



Catalog Number: 136208

Eaton Moeller® series E59 Proximity switch, inductive, 1 N/C, Sn=4mm, 4L, 6-48VDC, NPN, PNP, M12, metal E59-M12A105D01-D2

General specifications

Product Name
Eaton E59 AccuProx analog inductive proximity sensor

Catalog Number
136208

EAN
4015081330010

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
CSA-C22.2 No. 14
UL Category Control No.: NRKH, NRKH7

IEC/EN 60947-5-2
UL
UL 508
UL File No.: E166051
CE
CSA File No.: UL report applies to both US and Canada

Powering Business Worldwide

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-00004656.pdf

DA-DC-00004651.pdf

Drawings

eaton-proximity-switches-e59-proximity-switch-dimensions-007.eps

131I090

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 wire breakage

Protection against polarity reversal

Voltage type

DC

Mounting method

Flush mounting

Material

Stainless steel

Connection type

3-wire

Plug-in connection M12 x 1

Installation type

Concise

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

580 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

4 mm

Repeatability

1 %

Sensor height

0 mm

Sensor length

69 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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