Specifications

Eaton 136205

Catalog Number: 136205

Eaton Moeller® series E59 Proximity switch, inductive, 1N/O, Sn=4mm, 4L, 6-48VDC, NPN, PNP, M12, metal E59-M12A105C02-D1



General specifications

Product Name
Eaton E59 AccuProx analog inductive proximity sensor

Catalog Number
136205

EAN
4015081329984

Product Length/Depth
152.4 mm

Product Height
44.45 mm

Product Width
127 mm

Product Weight
0.45 kg

Certifications
UL
UL Category Control No.: NRKH, NRKH7

Certified by UL for use in Canada
UL 508
CSA File No.: UL report applies to both US and Canada
UL File No.: E166051
IEC/EN 60947-5-2
CE
CSA-C22.2 No. 14

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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.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

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

Voltage type

DC

Mounting method

Flush mounting

Material

Stainless steel

Connection type

3-wire
2 m connection cable

Installation type

Concise

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

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

62 mm

Supply voltage - max

48 V

Supply voltage - min

6 V

Switching hysteresis of Sn

15 %

Voltage drop (Ud)

2.5 V

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

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