Specifications

Eaton 166808

Catalog Number: 166808

Eaton Moeller® series E59 Proximity Sensor, M18, analog, Sn=1-15mm, 15-30VDC, 4-20mA, M12



General specifications

Product Name
Eaton E59 AccuProx analog inductive proximity sensor

Catalog Number
166808

EAN
4015081643677

Product Length/Depth
152.4 mm

Product Height
44.45 mm

Product Width
127 mm

Product Weight
0.45 kg

Certifications
CE
IEC/EN 60947-5-2
UL
CSA
CSA Class No.: 3211-03
CSA-C22.2 No. 14
UL 508
UL Category Control No.: NRKH, NRKH7

UL File No.: E166051
CSA File No.: 50513

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Product specifications

Type

Inductive sensor

Electric connection type

Other

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

18 mm

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)

Resources

Brochures

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

Drawings

eaton-proximity-switches-e59-proximity-sensor-3d-drawing-004.eps

Installation instructions

IL05301010Z

Multimedia

We make what matters

0

Output current at protected output - max

20 mA

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

0 V

Output current

4 - 20 mA

Voltage type

DC

Mounting method

Non-flush mounting

Material

Stainless steel

Connection type

Plug-in connection M12 x 1

3-wire/4-wire

Installation type

Not flat

Degree of protection

IP67

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

Other

Shock resistance

30 g, Mechanical, Shock duration 11 ms

Switching frequency

100 Hz

Voltage rating - max

30 V

Width sensor

0 mm

Product category

E59 AccuProx Series

Switching output type

Analog

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

30 V

Rated control supply voltage (Us) at DC - min

15 V

Rated switching distance (Sn) - max

15 mm

Rated switching distance (Sn) - min

1 mm

Repeatability

1 %

Sensor height

0 mm

Sensor length

69.3 mm

Supply voltage - max

30 V

Supply voltage - min

15 V



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