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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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