Specifications

# Eaton 136216



## Catalog Number: 136216

Eaton Moeller® series E59 Proximity switch, inductive, 1 N/C, Sn=8mm, 4L, 6-48VDC, NPN, PNP, M18, metal E59-M18A108D01-D2

## General specifications

**Product Name**
Eaton E59 AccuProx analog inductive proximity sensor

**Catalog Number**
136216

**EAN**
4015081330096

**Product Length/Depth**
152.4 mm

**Product Height**
44.45 mm

**Product Width**
127 mm

**Product Weight**
0.45 kg

**Certifications**
UL
UL 508
CE
UL File No.: E166051
CSA File No.: UL report applies to both US and Canada
CSA-C22.2 No. 14
IEC/EN 60947-5-2
UL Category Control No.: NRKH, NRKH7

Certified by UL for use in 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
18 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-009.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

Plug-in connection M12 x 1

3-wire

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

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

390 Hz

Voltage rating - max

48 V

Width sensor

0 mm

Product category

iProx Series

Switching output type

PNP/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

8 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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