

- German
- English
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



E59-M18A108D01-D1 - Proximity switch, inductive, 1NO, Sn=8mm, 4L, 6-48VDC, NPN, PNP, M18, metal



136215 E59-M18A108D01-D1

[Overview](#) [Specifications](#) [Resources](#)

## 136215 E59-M18A108D01-D1

Proximity switch, inductive, 1NO, Sn=8mm, 4L, 6-48VDC, NPN, PNP, M18, metal

Alternate Catalog No.

E59-M18A108D01-D1

EL-Nummer (Norway)

0004315382

Proximity switch, Inductive Sensors, Product range: iProx Series, Connection: 3-wire, Design (outer dimensions): M18 x 1 mm,

Rated operational voltage: Ue= 6 - 48 V DC, Rated switching distance: Sn= 8 mm, Type of mounting: Flush, Switching type: NPN,

PNP, Plug-in connection M12 x 1, Contacts N/O = Normally open: 1 N/O, Material: Stainless steel, Degree of Protection: IP67, IP69K,

Standards: IEC/EN 60947-5-2

- Delivery program

- Technical data

Design verification as per IEC/EN 61439

- Technical data ETIM 7.0

- Approvals

- Dimensions

### Delivery program

Basic function

Inductive Sensors

Product range

iProx Series

Connection

3-wire

Design (outer dimensions)

M18 x 1 mm

Rated operational voltage [Ue]

6 - 48 V DC

Rated switching distance [Sn]

8 mm

Type of mounting

Flush

Switching type

NPN

PNP

For connection of:

Plug-in connection M12 x 1

Contacts

N/O = Normally open

1 NO

Material

Stainless steel

Degree of Protection

IP67, IP69

### Technical data

General

Standards

IEC/EN 60947-5-2

Ambient temperature

-40 - +70

Mechanical shock resistance

30

Shock duration 11 ms g

Degree of Protection

IP67, IP69

Characteristics

Rated switching distance [Sn]

8 mm

Repetition accuracy of Sn

1 %

Temperature drift of Sn

10 %

Switching hysteresis of Sn

15 %

Rated operational voltage [Ue]

6 - 48 V DC  
Maximum load current [ $I_{\text{L}}$ ]  
< 300 mA  
Operating current in the switched state at 24 V DC [ $I_{\text{L}}$ ]  
15 mA  
Voltage drop at  $I_{\text{L}}$  [ $U_{\text{L}}$ ]  
2.5 V  
Switching Frequency  
390 Hz  
Mn. load current [ $I_{\text{L}}$ ]  
1 mA  
Residual current through the load in the blocked state at 230 V AC and 24 V DC [ $I_{\text{L}}$ ]  
0.15 mA  
Switching state display  
Red LED  
Operating voltage display  
Green LED  
Protective functions  
Short-circuit protective device  
Protection against polarity reversal  
Protection against wire breakage  
Connection  
3-wire  
Contacts N/O = Normally open  
1 N/O  
Style/Design (outer dimensions)  
M18 x 1 mm  
For connection of:  
Plug-in connection M12 x 1  
Material  
Stainless steel

## Design verification as per IEC/EN 61439

Operating ambient temperature min.  
-40 °C  
Operating ambient temperature max.  
+70 °C

## Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)  
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ec1@ss10.0.1-27-27-01-01 [AGZ376015])  
Width sensor  
0 mm  
Height of sensor  
0 mm  
Length of sensor  
69 mm  
Diameter sensor  
18 mm  
Mechanical mounting condition for sensor  
Concise  
Switching distance  
8 mm  
Suitable for safety functions  
No  
Type of switch function  
Normally open contact  
Type of switching output  
PNP/NPN  
Type of electric connection  
Connector M12  
Number of semiconductor outputs with signalling function  
1  
Number of contact energized outputs with signalling function  
0  
Number of protected semiconductor outputs  
0  
Number of protected contact energized outputs  
0  
Type of actuation  
Metallic Target  
Type of interface  
None  
Type of interface for safety communication  
None  
Construction type housing  
Cylinder, screw-thread  
Coating housing  
Other  
Cascadable  
No  
Category according to EN 954-1  
B  
SIL according to IEC 61508

None  
Performance level acc. EN ISO 13849-1  
None  
Max. output current at protected output  
0 mA  
Supply voltage  
6 - 48 V  
Rated control supply voltage Us at AC 50Hz  
0 - 0 V  
Rated control supply voltage Us at AC 60Hz  
0 - 0 V  
Rated control supply voltage Us at DC  
6 - 48 V  
Voltage type  
DC  
Switching frequency  
390 Hz  
With monitoring function downstream switching devices  
No  
Material housing  
Metal  
Compression-resistant  
No  
Explosion safety category for gas  
None  
Explosion safety category for dust  
None  
Interference resistance to magnetic fields

## Approvals

Product Standards  
UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking  
UL File No.  
E166051  
UL Category Control No.  
NRK4, NRK47  
CSA File No.  
UL report applies to both Canada and US  
CSA Class No.  
—  
North America Certification  
UL listed, certified by UL for use in Canada  
Max. Voltage Rating  
48 V DC  
Degree of Protection  
IEC: IP67, IP69K; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

## Dimensions



## Product photo



**Photo**  
Product photo  
Photo

## Dimensions single product



## 3D drawing



**1311090**  
3D drawing  
Line drawing  
Construction type: Cylinder

## Instruction Leaflet

- Inductive sensors: iProx Series (IL05301004Z)  
Instruction Leaflet

## Declaration of Conformity

- DA-DC-00003286  
Declaration of Conformity  
(PDF)

## Download-Center

- [Download-Center \(this item\)](#)  
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)  
Eaton EMEA Download-Center

 [Generate data sheet in PDF format](#)

 [Generate data sheet in Excel format](#)

 [Write a comment](#)

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2020 by Eaton Industries GrubH