

Select your language

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

Worldwide English



Powering Business Worldwide

E59-M18A108D01-D1 - Proximity switch, inductive, 1N/O, Sn=8mm, 4L, 6-48VDC, NPN, PNP, M18, metal



136215 E59-M18A108D01-D1

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



136215 E59-M18A108D01-D1

Proximity switch, inductive, 1N/O, 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 [U_e]
6 - 48 V DC
Rated switching distance [S_n]
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 N/O
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 distanceRated switching distance [S_n]
8 mm
Repetition accuracy of S_n
1 %
Temperature drift of S_n
10 %
Switching hysteresis of S_n
15 %
Rated operational voltage [U_e]

6 - 48 V DC
 Maximum load current [I_b]
 < 300 mA
 Operating current in the switched state at 24 V DC [I_b]
 15 mA
 Voltage drop at I_b [U_d]
 2.5 V
 Switching Frequency
 390 Hz
 Min. load current [I_b]
 1 mA
 Residual current through the load in the blocked state at 230 V AC and 24 V DC [I_r]
 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 NO = Normally open
 1 NO
 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 (ecl@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 50-Hz
0 - 0 V
Rated control supply voltage Us at AC 60-Hz
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.
NRK1, NRK1-7
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

- 
1360DIM-170
Dimensions single product
Line drawing

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 GmbH

