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E59-M18C116D01-D1 - Proximity switch, inductive, 1NO, Sn=18mm, 4L, 6-48VDC, NPN, PNP, M18, metal



136219 E59-M18C116D01-D1

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136219 E59-M18C116D01-D1

Proximity switch, inductive, 1NO, Sn=18mm, 4L, 6-48VDC, NPN, PNP, M18, metal

Alternate Catalog No.

E59-M18C116D01-D1

EL-Nummer (Norway)

4315383

Proximity switch, Inductive Sensors, Product range: iProx Series, Connection: 3-wire, Design (outer dimensions): M18 x 1 mm, Rated operational voltage: $U_e = 6 - 48 \text{ V DC}$, Rated switching distance: $S_n = 18 \text{ mm}$, Type of mounting: Non-flush, Switching type: NPN, PNP, Plug-in connection M12 x 1, Contacts NO = Normally open: 1 NO, Material: Stainless steel, Degree of Protection: IP67, IP69K, Standards: IEC/EN 60947-5-2

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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]

18 mm

Type of mounting

Non-flush

Switching type

NPN

PNP

For connection of:

Plug-in connection M12 x 1

Contacts

NO = 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 Rated switching distance [S_n]

18 mm

Repetition accuracy of S_n

3 %

Temperature drift of S_n

10 %

Switching hysteresis of S_n

15 %

Rated operational voltage [U_b]

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

150 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

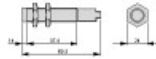
Mechanical mounting condition for sensor
 Not flat
 Switching distance
 18 mm
 Suitable for safety functions
 No
 Type of switch function
 Normally open contact
 Type of switching output
 PNP/NPN
 Type of electric connection
 Connector M12
 Number of semiconductor outputs with signalling function
 1
 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 U_s at AC 50Hz
 0 - 0 V
 Rated control supply voltage U_s at AC 60Hz
 0 - 0 V
 Rated control supply voltage U_s at DC
 6 - 48 V
 Voltage type
 DC
 Switching frequency
 150 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.
NRKH, NRKH7
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



1360PIC-61

Photo

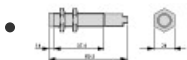
3D drawing



1360DRW-22

Line drawing

Dimensions single product



1360DIM-171

Line drawing

Instruction Leaflet

- Inductive sensors: iProx Series (IL05301004Z)

Asset

(PDF, multilingual)

Declaration of Conformity

EU

- Inductive Proximity Sensors Tubular (DA-DC-00003286)

Asset

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