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Worldwide English



E53KAL18T111SD - Proximity switch, capacitive, Sn=8mm, 1N/O, 3L, PNP, 10-30VDC, M18, insulated material, M12



134768 E53KAL18T111SD

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134768 E53KAL18T111SD

Proximity switch, capacitive, Sn=8mm, 1N/O, 3L, PNP, 10-30VDC, M18, insulated material, M12

Alternate Catalog No.

E53KAL18T111SD

EL-Nummer (Norway)

4315323

Proximity switch, Product range: E53 Capacitive Series, Capacitive sensors, Connection: 3-wire, Rated switching distance: Sn= 8 mm, Design (outer dimensions): M18 x 1 mm, Rated operational voltage: Ue= 10 - 30 V DC, Type of mounting: Flush, Switching type: PNP, For connection of:: Plug-in connection M12 x 1, Contacts N/O = Normally open: 1 N/O, Material: Insulated material, Degree of Protection: IP65

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Delivery program

Basic function

Capacitive sensors

Product range

E53 Capacitive Series

Connection

3-wire

Design (outer dimensions)

M18 x 1 mm

Rated operational voltage [U_e]

10 - 30 V DC

Rated switching distance [S_n]

8 mm

Type of mounting

Flush

Switching type

PNP

For connection of:

Plug-in connection M12 x 1

Contacts

N/O = Normally open

1 N/O

Material

Insulated material

Degree of Protection

IP65

Technical data

General

Standards

IEC/EN 60947-5-2-EMC

Ambient temperature

-25 - +70

Mechanical shock resistance

30

Shock duration 11 ms g

Degree of Protection

IP65

Characteristics

Rated switching distance Rated switching distance [S_n]

8 mm

Repetition accuracy of S_n

10 %

Temperature drift of S_n

10 %

Switching hysteresis of S_n

20 %

Rated operational voltage [U_b]

10 - 30 V DC

Residual ripple of U_b

10 %

Maximum load current [I_b]

< 300 mA

Operating current in the switched state at 24 V DC [I_b]

10 mA

Voltage drop at I_b [U_d]

2 V

Switching Frequency

250 Hz

Residual current through the load in the blocked state at 230 V AC and 24 V DC [I_r]

0.1 mA

Switching state display

Red 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

Insulated material

Design verification as per IEC/EN 61439

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+70 °C

Technical data ETIM 7.0

Sensors (EG000026) / Capacitive proximity switch (EC002715)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Capacitive proximity switch (ecl@ss10.0.1-27-27-01-02 [AGZ377015])

Width sensor

0 mm

Height of sensor

0 mm

Length of sensor

80 mm

Diameter sensor

18 mm

Mechanical mounting condition for sensor

Concise

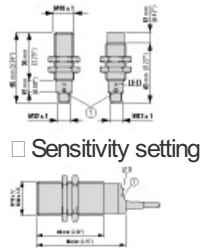
Switching distance
 8 mm
 Suitable for safety functions
 No
 Type of switch function
 Normally open contact
 Type of switching output
 PNP
 Type of electric connection
 Connector M12
 Number of semiconductor outputs with signalling function
 1
 Number of contact energized outputs with signalling function
 0
 Number of protected semiconductor outputs
 0
 Number of protected contact energized outputs
 0
 Type of actuation
 Other
 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
 10 - 30 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
 10 - 30 V
 Voltage type
 DC
 Switching frequency
 250 Hz
 With monitoring function downstream switching devices
 No
 With status indication
 Yes
 Material housing
 Plastic
 Compression-resistant
 No
 Explosion safety category for gas
 None
 Explosion safety category for dust
 None

Approvals

Product Standards
 CE marking
 Max. Voltage Rating
 250 V AC, 30 V DC

Degree of Protection
IEC: IP65; UL/CSA: NEMA 4, 12, 13

Dimensions



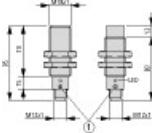
Product photo



1360PIC-272

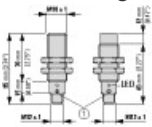
Photo

Dimensions single product



1360DIM-3

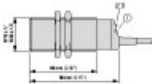
Line drawing



1360DIM-332

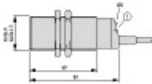
Line drawing

- Sensitivity setting



1360DIM-334

Line drawing



1360DIM-5

Line drawing

3D drawing



1311090

Line drawing

Construction type: Cylinder

Instruction Leaflet

- [Capacitive sensors: E53 Series \(IL05307002Z\)](#)
Asset
(PDF, multilingual)

Declaration of Conformity

EU

- Capacitive Proximity Sensors (E53) (DA-DG-00003141)

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