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Worldwide English



E53KBL18T111SD - Proximity switch, capacitive, Sn=8mm, 1 N/C, 3L, PNP, M18, insulated material, M12



134802 E53KBL18T111SD

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# 134802 E53KBL18T111SD

Proximity switch, capacitive, Sn=8mm, 1 N/C, 3L, PNP, M18, insulated material, M12

Alternate Catalog No.

E53KBL18T111SD

EL-Nummer (Norway)

4315329

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 NC= Normally closed: 1 NC, 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<sub>e</sub>]

10 - 30 V DC

Rated switching distance [S<sub>n</sub>]

8 mm

Type of mounting

Flush

Switching type

PNP

For connection of:

Plug-in connection M12 x 1

Contacts

NC= Normally closed

1 NC

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  
 Switching Frequency  
 250 Hz  
 Switching state display  
 Red LED  
 Connection  
 3-wire  
 Contacts NC = Normally closed  
 1 NC  
 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

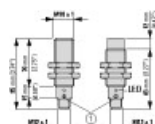
Sensors (EG000026) / Capacitive proximity switch (EC002715)  
 Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Capacitive proximity switch (ecl@ss10.0.1-27-27-01-02 [AGZ377015])  
 Width sensor  
 0 mm  
 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  
 Breaker 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



☐ Sensitivity setting

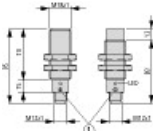
## Product photo



1360PIC-272

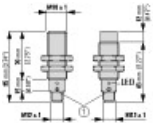
Photo

## Dimensions single product



1360DIM-3

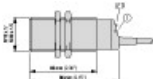
Line drawing



1360DIM-332

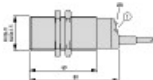
Line drawing

- Sensitivity setting



1360DIM-334

Line drawing



1360DIM-5

Line drawing

## 3D drawing



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)

Asset

(PDF)

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