

Select your language

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

Worldwide English



Powering Business Worldwide

E53KBL18T111ED - Proximity switch, capacitive, Sn=15mm, 1 NC, 3L, PNP, M18, insulated material, M12



134801 E53KBL18T111ED

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



- [Delivery program](#)
- [Technical data](#)
- [Design verification as per IEC/EN 61439](#)
- [Technical data ETIM 7.0](#)
- [Approvals](#)
- [Dimensions](#)

## 134801 E53KBL18T111ED

Proximity switch, capacitive, Sn=15mm, 1 NC, 3L, PNP, M18, insulated material, M12

Alternate Catalog No.

E53KBL18T111ED

EL-Nummer (Norway)

0004315328

Proximity switch, Product range: E53 Capacitive Series, Capacitive sensors, Connection: 3-wire, Rated switching distance: Sn= 15 mm, Design (outer dimensions): M18 x 1 mm, Rated operational voltage: Ue= 10 - 30 V DC, Type of mounting: Non-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

### 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>]  
15 mm  
Type of mounting  
Non-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 distanceRated switching distance [S<sub>n</sub>]  
15 mm  
Repetition accuracy of S<sub>n</sub>  
10 %  
Temperature drift of S<sub>n</sub>  
10 %  
Switching hysteresis of S<sub>n</sub>  
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

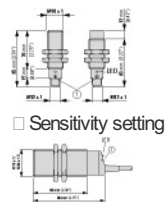
Sensors (EG000026) / Capacitive proximity switch (EC002715)  
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Capacitive proximity switch (ecl@ss10.0.1-27-27-01-02 [AGZ377015])  
Width sensor  
0 mm  
Height of sensor  
0 mm  
Length of sensor  
80 mm  
Diameter sensor  
18 mm  
Mechanical mounting condition for sensor  
Not flat  
Switching distance  
15 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

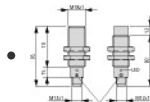


### Product photo

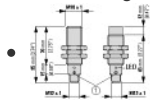


Photo  
Product photo  
Photo

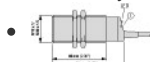
## Dimensions single product



1360DIM-3  
Dimensions single product  
Line drawing



1360DIM-332  
Dimensions single product  
Line drawing  
☐ Sensitivity setting



1360DIM-334  
Dimensions single product  
Line drawing

1360DIM-5  
Dimensions single product  
Line drawing

## 3D drawing



3D drawing  
Line drawing  
Construction type: Cylinder

# Instruction Leaflet

- [Kapacitive sensors: E53 Series \(IL05307002Z\)](#)  
Instruction Leaflet  
(PDF, International)

# Declaration of Conformity

- [DA-DC-00003141](#)  
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

