

- 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

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_d]
- 10 - 30 V DC
- Rated switching distance [S_n]
- 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 distance [S_n]
- 15 mm
- Repetition accuracy of S_n
- 10 %
- Temperature drift of S_n
- 10 %
- Switching hysteresis of S_n
- 20 %

134801 E53KBL18T111ED

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

Alternate Catalog No.

E53KBL18T111ED

EL-Nurmer (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

Rated operational voltage [U_e]
10 - 30 V DC
Residual ripple of U_e
10 %
Maximum load current [I_e]
<300 mA
Switching Frequency
250 Hz
Switching state display
Red LED
Connection
3-wire
ContactsNC = Normally closed
1 NC
StyleDesign (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

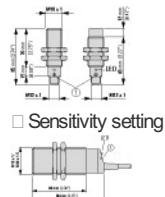
Sensors (EG000026) / Capacitive proximity switch (EO002715)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Capacitive proximity switch (edl@ss10.0.1-27-27-01-02 [AGZ377015])
Width sensor
0 mm
Height of sensor
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 Us 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

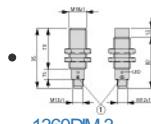


Product photo

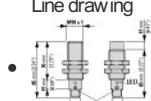


Photo
 Product photo
 Photo

Dimensions single product

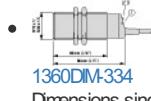


1360DIM-3
 Dimensions single product
 Line drawing



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

- 1311090**
 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 GrnbH