

Select your language

- [German](#)
- [English](#)
- [Spanish](#)
- [French](#)
- [Dutch](#)
- [Italian](#)
- [Polish](#)
- [Czech](#)
- [Russian](#)
- [Norwegian Bokmål](#)

Worldwide English



E53KAL34T111SD - Proximity switch, capacitive, Sn=25mm, 1N/O, 3L, PNP, 10-30VDC, M34, insulated material, M12



134790 E53KAL34T111SD

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



134790 E53KAL34T111SD

Proximity switch, capacitive, Sn=25mm, 1N/O, 3L, PNP, 10-30VDC, M34, insulated material, M12

Alternate Catalog No.

E53KAL34T111SD

EL-Nummer (Norway)

4315327

Proximity switch, Product range: E53 Capacitive Series, Capacitive sensors, Connection: 3-wire, Rated switching distance: Sn= 25 mm, Design (outer dimensions): 34 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

• [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)

34 □ mm

Rated operational voltage [U_e]

10 - 30 V DC

Rated switching distance [S_n]

25 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]
 25 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 NO = Normally open
 1 NO
 Style Design (outer dimensions)
 34 □ 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 (ec1@ss10.0.1-27-27-01-02 [AGZ377015])
 Width sensor
 0 mm
 Height of sensor
 0 mm
 Length of sensor
 80 mm
 Diameter sensor
 34 mm

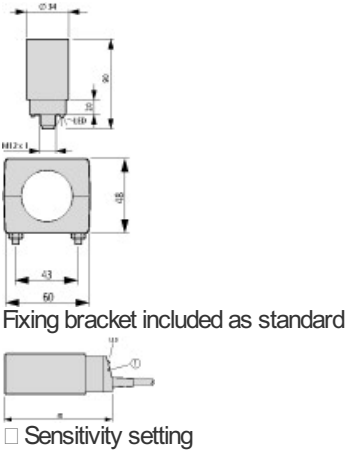
Mechanical mounting condition for sensor
Concise
Switching distance
25 mm
Suitable for safety functions
No
Type of switch function
Normally open contact
Type of switching output
PNP
Type of electric connection
Connector M12
Number of semiconductor outputs with signalling function
1
Number of contact 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 plain
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

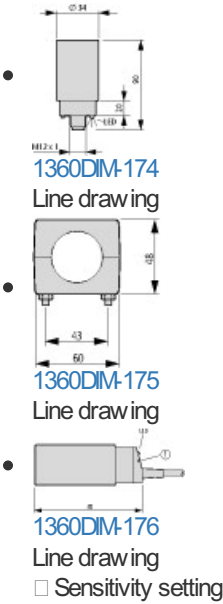
Dimensions



Product photo



Dimensions single product



Instruction Leaflet

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

Declaration of Conformity

EU

- [Capacitive Proximity Sensors \(E53\) \(DA-DC-00003141\)](#)
Asset

(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](#)

© 2021 by Eaton Industries GmbH

