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Worldwide English



E53KAL30T111ED - Proximity switch, capacitive, Sn=25mm, 1NO, 3L, PNP, 10-30VDC, M30, insulated material, M12



134779 E53KAL30T111ED

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



134779 E53KAL30T111ED

Proximity switch, capacitive, Sn=25mm, 1NO, 3L, PNP, 10-30VDC, M30, insulated material, M12

Alternate Catalog No.

E53KAL30T111ED

EL-Nummer (Norway)

4315324

Proximity switch, Product range: E53 Capacitive Series, Capacitive sensors, Connection: 3-wire, Rated switching distance: Sn= 25 mm, Design (outer dimensions): M30 x 1.5 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 NO = Normally open: 1 NO, 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)

M30 x 1.5 mm

Rated operational voltage [U_e]

10 - 30 V DC

Rated switching distance [S_n]

25 mm

Type of mounting

Non-flush

Switching type

PNP

For connection of:

Plug-in connection M12 x 1

Contacts

NO = Normally open

1 NO

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_{d1}]
 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)
 M30 x 1.5 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
 30 mm
 Mechanical mounting condition for sensor
 Not flat
 Switching distance

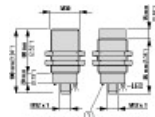
25 mm
 Suitable for safety functions
 No
 Type of switch function
 Normally open contact
 Type of switching output
 PNP
 Type of electric connection
 Connector M12
 Number of semiconductor outputs with signalling function
 1
 Number of contact energized outputs with signalling function
 0
 Number of 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, 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

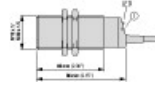
Product Standards
 CE marking
 Max. Voltage Rating
 250 V AC, 30 V DC
 Degree of Protection

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

Dimensions



□ Sensitivity setting



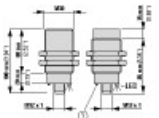
Product photo



1360PIC-11

Photo

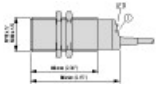
Dimensions single product



1360DIM-333

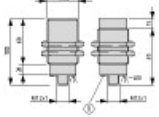
Line drawing

☐ Sensitivity setting



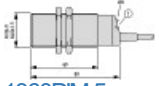
1360DIM-334

Line drawing



1360DIM-4

Line drawing



1360DIM-5

Line drawing

Instruction Leaflet

- Capacitive sensors: E53 Series (IL05307002Z)

Asset

(PDF, multilingual)

Declaration of Conformity

EU

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

Asset

(PDF)

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