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E53KAL18T111ED - Proximity switch, capacitive, Sn=15mm, 1NO, 3L, PNP, 10-30VDC, M18, insulated material, M12



134767 E53KAL18T111ED

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134767 E53KAL18T111ED

Proximity switch, capacitive, Sn=15mm, 1NO, 3L, PNP, 10-30VDC, M18, insulated material, M12

Alternate Catalog No.

E53KAL18T111ED

EL-Nummer (Norway)

4315322

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 NO = Normally open: 1 NO, 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_e]
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
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]

15 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 N/O = Normally open

1 N/O

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
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

Asset
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