DATASHEET - E53KAL18T111SD



Proximity switch, capacitive, Sn=8mm, 1N/0, 3L, PNP, 10-30VDC, M18, insulated material, M12



Part no. E53KAL18T111SD Catalog No. 134768

Alternate Catalog E53KAL18T111SD

No.

EL-Nummer 0004315323

(Norway)

Delivery program

Delivery program			
Basic function			Capacitive sensors
Product range			E53 Capacitive Series
Connection			3-wire
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S_n	mm	8
Type of mounting			Flush
Switching type			PNP
For connection of:			Plug-in connection M12 x 1
Contacts			
N/O = Normally open			1 N/0
Material			Insulated material
Degree of Protection			IP65

Technical data

General

Standards			IEC/EN 60947-5-2-EMC
Ambient temperature			-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP65
Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	8
Repetition accuracy of S_n		%	10
Temperature drift of S_n		%	10
Switching hysteresis of S_n		%	20
Rated operational voltage	U _e		10 - 30 V DC
Residual ripple of U_{e}		%	10
Maximum load current	le	mA	< 300
Operating current in the switched state at 24 V DC	I _b	mA	10
Voltage drop at I_e	U_{d}	V	2
Switching Frequency		Hz	250
Residual current through the load in the blocked state at 230 V AC and 24 V DC $$	Ir	mA	0.1
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			3-wire
Contacts			
N/O = Normally open			1 N/0
Style			
Design (outer dimensions)		mm	M18 x 1
For connection of:			Plug-in connection M12 x 1
Material			Insulated material

Design verification as per IEC/EN 61439

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Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	70

Technical data ETIM 7.0

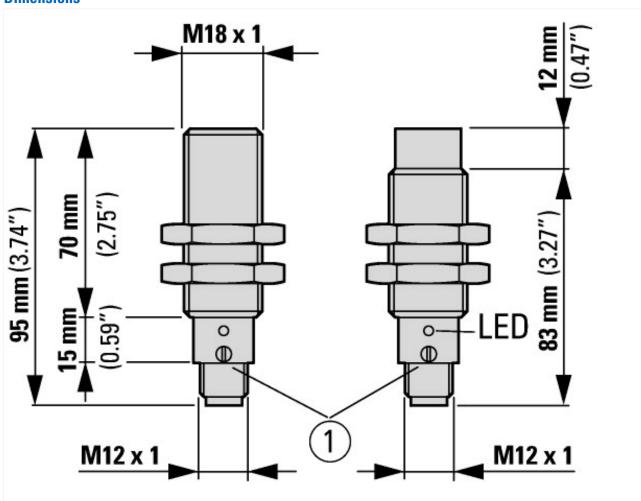
Sensors (EG000026) / Capacitive proximity switch (EC002715)	
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Capacitive proximity swit	ch

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Electric engineering, automation, process control engineering / Binary sensor (ecl@ss10.0.1-27-27-01-02 [AGZ377015])	technology, safety	-related s	ensor technology / Proximity switch / Capacitive proximity switch
Width sensor		mm	0
Height of sensor		mm	0
Length of sensor		mm	80
Diameter sensor		mm	18
Mechanical mounting condition for sensor			Concise
Switching distance		mm	8
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			В
SIL according to IEC 61508			None
Performance level acc. EN ISO 13849-1			None
Max. output current at protected output		mA	0
Supply voltage		V	10 - 30
Rated control supply voltage Us at AC 50HZ		V	0 - 0
Rated control supply voltage Us at AC 60HZ		V	0 - 0
Rated control supply voltage Us at DC		V	10 - 30
Voltage type			DC
Switching frequency		Hz	250
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



1 Sensitivity setting

