



**Proximity switch, capacitive,  $S_n=8\text{mm}$ , 1 N/C, 3L, PNP, M18, insulated material, M12**

**Part no.** E53KBL18T111SD  
**Catalog No.** 134802  
**Alternate Catalog No.** E53KBL18T111SD  
**EL-Nummer (Norway)** 4315329

## 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
<b>Contacts</b>			
N/C = 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		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	$I_e$	mA	< 300
Switching Frequency		Hz	250
Switching state display		LED	Red
Connection			3-wire
Contacts			
N/C = Normally closed			1 NC
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

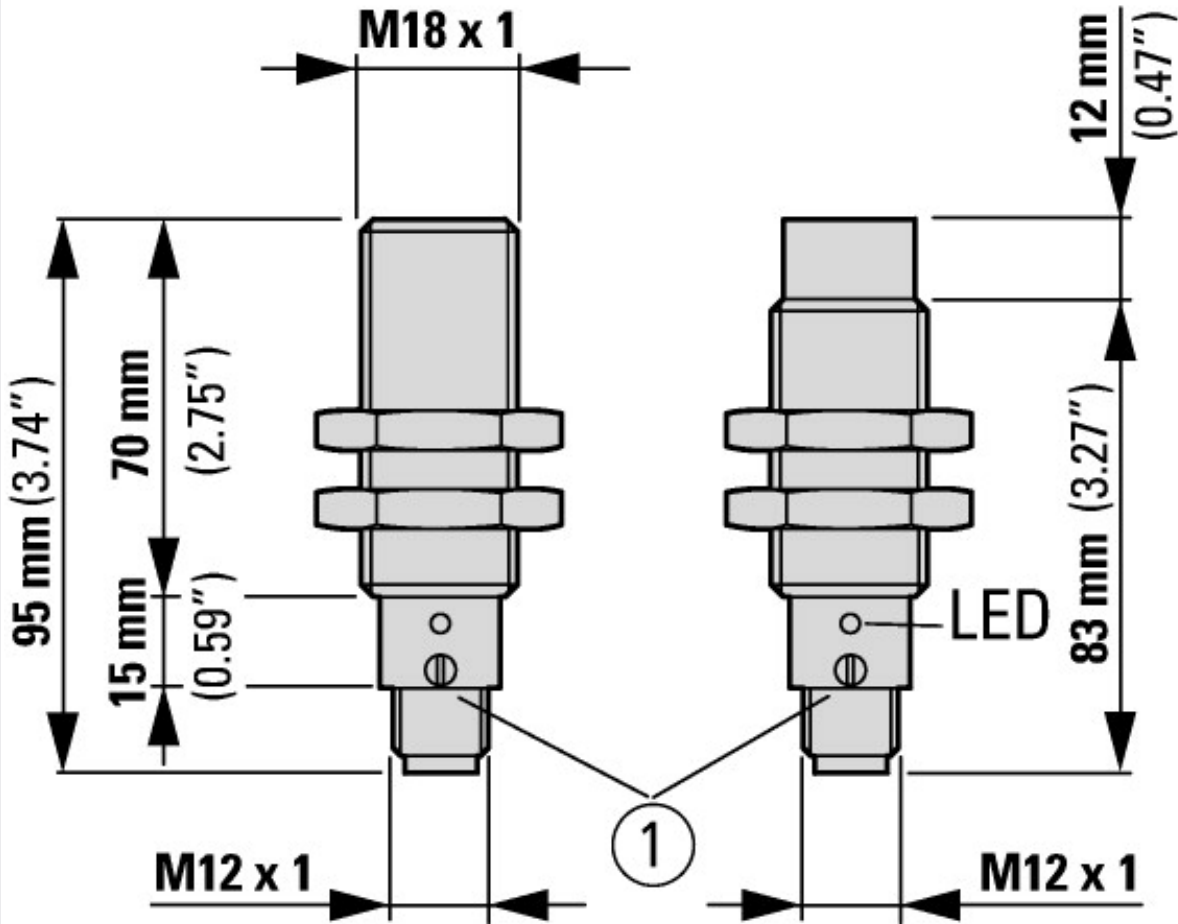
Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

## 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 switch (ecI@ss10.0.1-27-27-01-02 [AGZ377015])			
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			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		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



① Sensitivity setting

