DATASHEET - E53KBL18T111



Proximity switch, capacitive, Sn=8mm, 1 N/C, 3L, PNP, M18, insulated material, line 2m



Part no. E53KBL18T111
Catalog No. 134799
Alternate Catalog E53KBL18T111
No.

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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:			2 m connection cable
Contacts			
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 Repetition accuracy of Sn Rep				
Rated switching distance Rated switching distance Repetition accuracy of S _n Repetition Switching hysteresis of S _n Residual ripple of U _e Residual ripple of U	Degree of Protection			IP65
Rated switching distance Repetition accuracy of S _n Residual right of S _n Rated operational voltage Residual ripple of U _e Residua	Characteristics			
Repetition accuracy of S _n Temperature drift of S _n Temperature drif	Rated switching distance			
Temperature drift of Sn 10 Switching hysteresis of Sn 20 Rated operational voltage Ue 10 - 30 V DC Residual ripple of Ue 70 Maximum load current Ie 70 Switching Frequency 12 Switching state display 13 Connection 15 Contacts 17 Design (outer dimensions) 17 Switching State of Sn 10 10 10 10 10 10 10 10 10 10 10 10 10	Rated switching distance	S_n	mm	8
Switching hysteresis of Sn Rated operational voltage Residual ripple of Ue Residual ripp	Repetition accuracy of S_n		%	10
Rated operational voltage Residual ripple of U _e Maximum load current Maximum load c	Temperature drift of S_n		%	10
Residual ripple of Ue % 10 Maximum load current Ie mA <300 Switching Frequency Hz 250 Switching state display LED Red Connection 3-wire Contacts 1 NC N/C = Normally closed 1 NC Style Design (outer dimensions) mm M18 x 1 For connection of: 2 m connection cable	Switching hysteresis of S_n		%	20
Maximum load current Ile mA < 300 Switching Frequency Witching state display LED Red Connection Contacts N/C = Normally closed Design (outer dimensions) To connection of: Maximum load current Ile mA < 300 Red 3-wire 1 NC NCC MRED	Rated operational voltage	U _e		10 - 30 V DC
Switching Frequency Switching state display LED Red Connection Contacts N/C = Normally closed N/C = Normally closed Design (outer dimensions) M18 x 1 For connection of: By 250 Red 3-wire 1 NC 1 NC 1 NC 2 m connection cable	Residual ripple of U _e		%	10
Switching state display Connection Contacts N/C = Normally closed N/C = Normally closed Design (outer dimensions) M18 x 1 For connection of: LED Red 3-wire N-Wire N-Wire NC NC NC NC NC MM8 x 1 Z m connection cable	Maximum load current	le	mA	< 300
Connection 3-wire Contacts Incompany N/C = Normally closed 1 NC Style Incompany Design (outer dimensions) mm M18 x 1 For connection of: 2 m connection cable	Switching Frequency		Hz	250
Contacts INC N/C = Normally closed INC Style Incomparison of the connection of the	Switching state display		LED	Red
N/C = Normally closed Style Design (outer dimensions) mm M18 x 1 2 m connection cable	Connection			3-wire
Style Design (outer dimensions) mm M18 x 1 For connection of: 2 m connection cable	Contacts			
Design (outer dimensions) mm M18 x 1 For connection of: 2 m connection cable	N/C = Normally closed			1 NC
For connection of: 2 m connection cable	Style			
	Design (outer dimensions)		mm	M18 x 1
Material Insulated material	For connection of:			2 m connection cable
	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

 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 switch function Breaker contact

Type of switching output PNP

Type of electric connection Cable

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
With monitoring function downstream switching devices

With status indication Yes

Material housing Plastic

Compression-resistant No

Explosion safety category for gas

Explosion safety category for dust

None

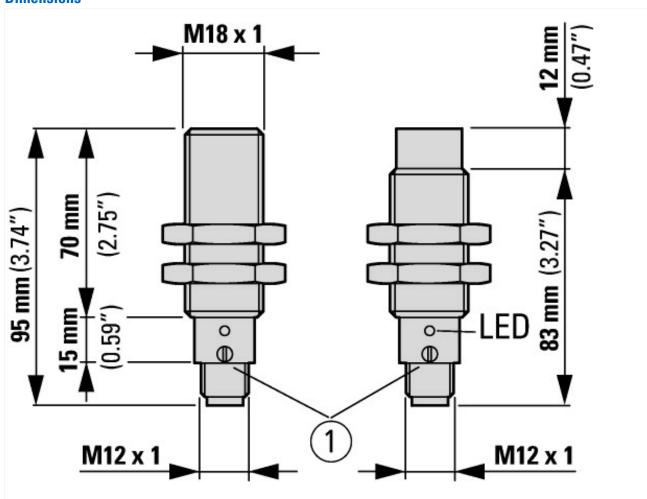
Approvals

Product Standards
CE marking
Max. Voltage Rating
250 V AC, 30 V DC
Degree of Protection
IEC: IP65; UL/CSA: NEMA 4, 12, 13

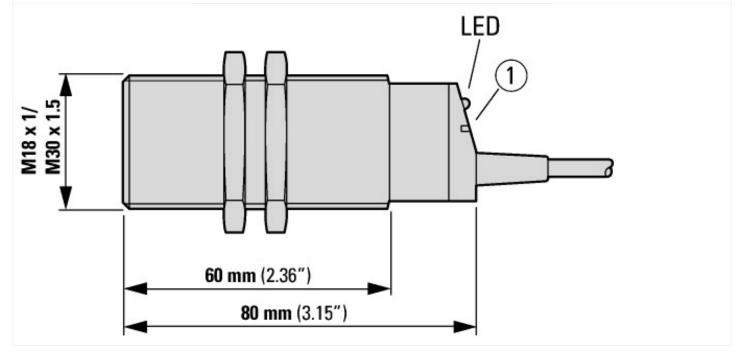
250

No

Dimensions



1 Sensitivity setting



Assets (links)

Declaration of CE Conformity

00003141

Instruction Leaflets

IL05307002Z2018_05

Additional product information (links)

IL05307002Z E53 Series Capacitive Sensors

IL05307002Z E53 Series Capacitive Sensors

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05307002Z2018_05.pdf$