

Proximity switch, capacitive, Sn=20mm, 1N/0, 2L, 20-250VAC, M30, insulated material, M12



Part no. E53KAL30A2SA Article no. 134772 Catalog No. E53KAL30A2SA

	gram

Basic function			Capacitive sensors
Product range			E53 Capacitive Series
Connection			2-wire
Design (outer dimensions)		mm	M30 x 1.5
Rated operational voltage	U _e		20 - 250 V AC
Rated switching distance	S_n	mm	20
Type of mounting			Flush
For connection of:			Plug-in connection M12 x 1
Contacts			
N/O = Normally open			1 N/0
Material			Insulated material
Degree of Protection			IP65

IEC/EN 60947-5-2-EMC

Technical data

General Standards

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	20
Repetition accuracy of S_n		%	10
Temperature drift of S _n		%	10
Switching hysteresis of S_n		%	20
Rated operational voltage	U _e		20 - 250 V AC
Supply frequency			50 - 60
Residual ripple of U _e		%	10
Maximum load current	I _e	mA	< 300
Operating current in the switched state at 24 V DC	I _b	mA	2.5
Voltage drop at I _e	U_{d}	V	9
Switching Frequency		Hz	15
Min. load current	I _e	mA	5
Short-time current (10 ms, 5 Hz)		Α	5
Residual current through the load in the blocked state at 230 V AC and 24 V DC $$	I _r	mA	2.5
Switching state display		LED	Red
Connection			2-wire
Contacts			
N/O = Normally open			1 N/O
Style			
Design (outer dimensions)		mm	M30 x 1.5
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

Technical data ETIM 6.0

Sensors (EG000026) / Capacitive proximity switch (EC002715)

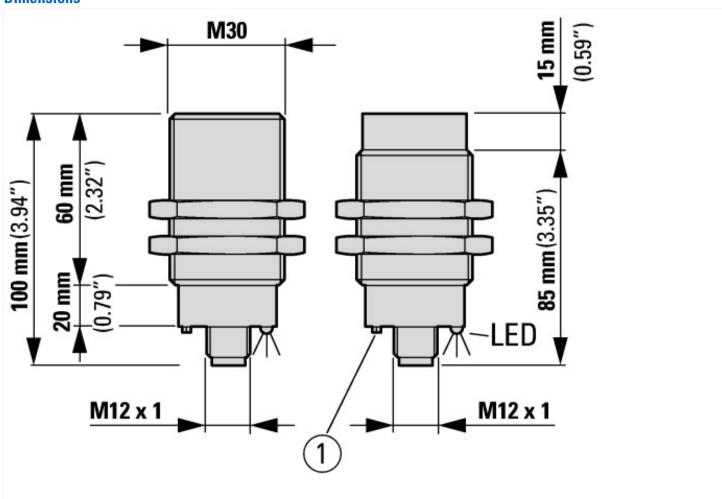
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Capacitive proximity switch (coll@ss8 1-27-27-01-02 (AG7377012))

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Width sensor		mm	0
Height of sensor		mm	0
Length of sensor		mm	80
Diameter sensor		mm	30
Mechanical mounting condition for sensor			Concise
Switching distance		mm	20
Suitable for safety functions			No
Type of switch function			Normally open contact
Type of switching output			Two-wire
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			-
Type of interface			None
Type of interface for safety communication			None
Construction type housing			Cylinder, screw-thread
Coating housing			-
Cascadable			No
Category according to EN 954-1			В
SIL according to IEC 61508			None
Performance level acc. to EN ISO 13849-1			None
Max. output current at protected output		mA	0
Supply voltage		V	20 - 250
Rated control supply voltage Us at AC 50HZ		V	20 - 250
Rated control supply voltage Us at AC 60HZ		V	20 - 250
Rated control supply voltage Us at DC		V	0 - 0
Voltage type			AC
Switching frequency		Hz	15
With monitoring function downstream switching devices			No
Material housing			Plastic
Compression-resistant			No
Explosion safety category for gas			None
Explosion safety category for dust			None

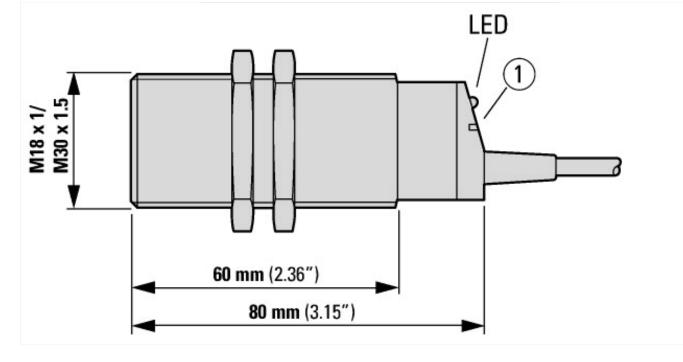
Approvals

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



Additional product information (links)

IL05307002Z.pdf E53 Series Capacitive Sensors

IL05307002Z.pdf E53 Series Capacitive Sensors ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05307002Z2016_07.pdf