



Proximity switch, E57 Premium+ Short-Series, 1 NC, 2-wire, 40 - 250 V AC, 20 - 250 V DC, M30 x 1.5 mm, S<sub>n</sub>= 10 mm, Flush, NPN/PNP, Stainless steel, Plug-in connection M12 x 1

**Part no.** E57SBL30A2SA  
**Catalog No.** 136171  
**Alternate Catalog No.** E57SBL30A2SA

## Delivery program

Basic function			Inductive Sensors
Product range			E57 Premium+ Short-Series
Connection			2-wire
Design (outer dimensions)		mm	M30 x 1.5
Rated operational voltage	U <sub>e</sub>		40 - 250 V AC 20 - 250 V DC
Rated switching distance	S <sub>n</sub>	mm	10
Type of mounting			Flush
Switching type			NPN/PNP
For connection of:			Plug-in connection M12 x 1
<b>Contacts</b>			
N/C = Normally closed			1 NC
Material			Stainless steel
Degree of Protection			IP67

## Technical data

### General

Standards			IEC/EN 60947-5-2
Ambient temperature			-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP67

### Characteristics

Rated switching distance			
Rated switching distance	S <sub>n</sub>	mm	10
Repetition accuracy of S <sub>n</sub>		%	3
Temperature drift of S <sub>n</sub>		%	10
Switching hysteresis of S <sub>n</sub>		%	20
Rated operational voltage	U <sub>e</sub>		40 - 250 V AC 20 - 250 V DC
Operating current in the switched state at 24 V DC	I <sub>b</sub>	mA	10
Maximum load current	I <sub>e</sub>	mA	< 250 (25 °C) / 200 (70 °C)
Voltage drop at I <sub>e</sub>	U <sub>d</sub>	V	2.5
Switching Frequency		Hz	60
Min. load current	I <sub>e</sub>	mA	1
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I <sub>r</sub>	mA	0.1
Switching state display		LED	Red
Connection			2-wire
Contacts			
N/C = Normally closed			1 NC
Style			
Design (outer dimensions)		mm	M30 x 1.5
For connection of:			Plug-in connection M12 x 1
Material			Stainless steel

## 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) / Inductive proximity switch (EC002714)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015])			
Width sensor		mm	0
Height of sensor		mm	0
Length of sensor		mm	45
Diameter sensor		mm	30
Mechanical mounting condition for sensor			Concise
Switching distance		mm	10
Suitable for safety functions			No
Type of switch function			Breaker 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			Metallic Target
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	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	20
With monitoring function downstream switching devices			No
Material housing			Metal
Compression-resistant			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Interference resistance to magnetic fields			

## Approvals

Product Standards			UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.			E166051
UL Category Control No.			NRKH, NRKH7
CSA File No.			50513
CSA Class No.			3211-03
North America Certification			UL listed, CSA certified
Max. Voltage Rating			250 V AC, 250 V DC
Degree of Protection			IEC: IP67; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

## Dimensions

① Sensor surface

## Assets (links)

### Declaration of CE Conformity

00003158

### Instruction Leaflets

IL05301003Z2018\_05

## Additional product information (links)

### IL05301003Z Premium Plus Series Inductive Sensors +Short, +Miniature

IL05301003Z Premium Plus Series Inductive Sensors +Short, +Miniature	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301003Z2018_05.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301003Z2018_05.pdf</a>
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