



Proximity switch, E57 Premium+ Short-Series, 1 N/O, 2-wire, 40 - 250 V AC, 20 - 250 V DC, M18 x 1 mm, S_n= 5 mm, Flush, NPN/PNP, Stainless steel, Plug-in connection M12 x 1

Part no. E57SAL18A2SA
Catalog No. 136109
Alternate Catalog No. E57SAL18A2SA

Delivery program

Basic function			Inductive Sensors
Product range			E57 Premium+ Short-Series
Connection			2-wire
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U _e		40 - 250 V AC 20 - 250 V DC
Rated switching distance	S _n	mm	5
Type of mounting			Flush
Switching type			NPN/PNP
For connection of:			Plug-in connection M12 x 1
Contacts			
N/O = Normally open			1 N/O
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 _n	mm	5
Repetition accuracy of S _n		%	3
Temperature drift of S _n		%	10
Switching hysteresis of S _n		%	20
Rated operational voltage	U _e		40 - 250 V AC 20 - 250 V DC
Operating current in the switched state at 24 V DC	I _b	mA	10
Maximum load current	I _e	mA	< 250 (25 °C) / 200 (70 °C)
Voltage drop at I _e	U _d	V	2.5
Switching Frequency		Hz	60
Min. load current	I _e	mA	1
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I _r	mA	0.1
Switching state display		LED	Red
Connection			2-wire
Contacts			
N/O = Normally open			1 N/O
Style			
Design (outer dimensions)		mm	M18 x 1
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	40
Diameter sensor	mm	18
Mechanical mounting condition for sensor		Concise
Switching distance	mm	5
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		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	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301003Z2018_05.pdf
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