DATASHEET - E57LBL12A2E

Proximity switch, E57 Premium+ Series, 1 NC, 2-wire, 20 - 250 V AC, M12 x 1 mm, Sn= 4 mm, Non-flush, Stainless steel, 2 m connection cable

Powering Business Worldwide™

Part no.	**E57LBL12A2E**
Catalog No.	**136031**
Alternate Catalog No.	**E57LBL12A2E**

Delivery program

Basic function			Inductive Sensors
Product range			E57 Premium+ Series
Connection			2-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	U_e		20 - 250 V AC
Rated switching distance	S_n	mm	4
Type of mounting			Non-flush
For connection of:			2 m connection cable
Contacts			
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_n	mm	4
Repetition accuracy of S_n		%	3
Temperature drift of S_n		%	10
Switching hysteresis of S_n		%	20
Rated operational voltage	U_e		20 - 250 V AC
Operating current in the switched state at 24 V DC	I_b	mA	10
Maximum load current	I_e	mA	< 500 (25 °C) / 250 (70 °C)
Voltage drop at I_e	U_d	V	2.5
Switching Frequency		Hz	20
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/C = Normally closed			1 NC
Style			
Design (outer dimensions)		mm	M12 x 1
For connection of:			2 m connection cable
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	73
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	4
Suitable for safety functions		No
Type of switch function		Breaker contact
Type of switching output		Two-wire
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		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
Degree of Protection		IEC: IP67, IP69K; 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