DATASHEET - E57-12LE06-BD



Proximity switch, E57 Premium+ Series, 1 N/O, 3-wire, 6 - 48 V DC, M12 x 1 mm, Sn= 6 mm, Semi-shielded, PNP, Stainless steel, Plug-in connection M12 x 1



Part no. E57-12LE06-BD

Catalog No. Alternate Catalog 135899 E57-12LE06-BD

No.

Delivery program

Product range Connection Connection Design (outer dimensions) Rated operational voltage Rated switching distance Rated switching dype For connection of: N/O = Normally open Material E57 Premium+ Series 3-wire Mm M12 x 1 6 - 48 V DC 6 - 48 V DC Semi-shielded PNP Plug-in connection M12 x 1 1 N/O Stainless steel	Don'tory program			
Connection Connection Design (outer dimensions) Rated operational voltage Rated switching distance Rated switching dype For connection of: Contacts N/O = Normally open Material Amage of the standard of the standar	Basic function			Inductive Sensors
Design (outer dimensions) Rated operational voltage Ue 6 - 48 V DC Rated switching distance Solution in Semi-shielded Switching type For connection of: Contacts N/O = Normally open M12 x 1 6 - 48 V DC Semi-shielded PNP Plug-in connection M12 x 1 1 N/O Stainless steel	Product range			E57 Premium+ Series
Rated operational voltage Rated switching distance Son mm 6 Type of mounting Switching type For connection of: N/0 = Normally open Material De 6 - 48 V DC 8 - 48 V DC 6 - 48 V DC 8 - 48 V DC 6 - 48 V DC 8 - 48 V DC 8 - 48 V DC 9 - 48 V DC 8 - 48 V DC 8 - 48 V DC 9 - 48 V DC 8 - 48 V DC 8 - 48 V DC 9 - 48 V DC 8 - 48 V DC 9 - 48 V DC 8 - 48 V DC 8 - 48 V DC 9 - 48 V DC 8 - 48 V D	Connection			3-wire
Rated switching distance Sometimes of the switching distance Sometimes of the switching distance Sometimes of the switching type Sometimes of the switching type PNP For connection of: Contacts N/O = Normally open Material Sometimes of the switching distance PNP Plug-in connection M12 x 1 I N/O Stainless steel	Design (outer dimensions)		mm	M12 x 1
Type of mounting Semi-shielded PNP For connection of: Plug-in connection M12 x 1 Contacts N/0 = Normally open 1 N/0 Material Stainless steel	Rated operational voltage	U _e		6 - 48 V DC
Switching type PNP For connection of: Plug-in connection M12 x 1 Contacts I N/O N/O = Normally open 1 N/O Material Stainless steel	Rated switching distance	S_n	mm	6
For connection of: Contacts N/0 = Normally open Material Plug-in connection M12 x 1 Plug-in connection M12 x 1 Stainless steel	Type of mounting			Semi-shielded
Contacts 1 N/O N/O = Normally open 1 N/O Material Stainless steel	Switching type			PNP
N/0 = Normally open 1 N/0 Material Stainless steel	For connection of:			Plug-in connection M12 x 1
Material Stainless steel	Contacts			
	N/O = Normally open			1 N/O
Degree of Protection IP67	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	6
Repetition accuracy of S_n		%	3
Temperature drift of S_n		%	10
Switching hysteresis of S_n		%	15
Rated operational voltage	U _e		6 - 48 V DC
Operating current in the switched state at 24 V DC	I _b	mA	10
Maximum load current	le	mA	< 500 (6 - 30 V DC)
Voltage drop at I_e	U_{d}	V	2.5
Switching Frequency		Hz	800
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			3-wire
Contacts			
N/0 = Normally open			1 N/0
Style			
Design (outer dimensions)		mm	M12 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.	°(С	-25
Operating ambient temperature max.	°(С	70

Technical data ETIM 7.0

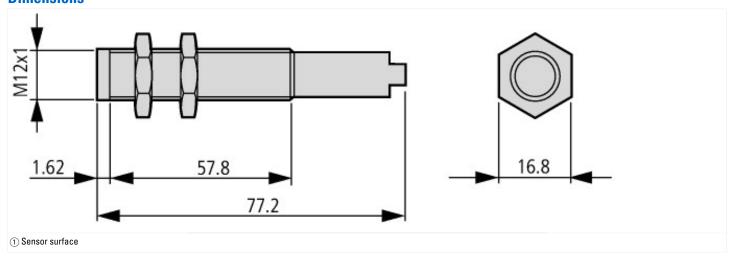
Sensors (EG000026) / Inductive proximity switch (EC002714)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch

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	77.2
Diameter sensor		mm	12
Mechanical mounting condition for sensor			Not flat
Switching distance		mm	6
Suitable for safety functions			No
Type of switch function			Normally open contact
Type of switching output			PNP
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			В
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	6 - 48
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	6 - 48
Voltage type			DC
Switching frequency		Hz	800
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	none
CSA File No.	none
CSA Class No.	none
Max. Voltage Rating	48 V DC
Degree of Protection	IEC: IP67, IP69K; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

Dimensions



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