



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



**Part no.** E57-12LE06-BD  
**Catalog No.** 135899  
**Alternate Catalog No.** E57-12LE06-BD

## Delivery program

Basic function			Inductive Sensors
Product range			E57 Premium+ Series
Connection			3-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	U <sub>e</sub>		6 - 48 V DC
Rated switching distance	S <sub>n</sub>	mm	6
Type of mounting			Semi-shielded
Switching type			PNP
For connection of:			Plug-in connection M12 x 1
<b>Contacts</b>			
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 <sub>n</sub>	mm	6
Repetition accuracy of S <sub>n</sub>		%	3
Temperature drift of S <sub>n</sub>		%	10
Switching hysteresis of S <sub>n</sub>		%	15
Rated operational voltage	U <sub>e</sub>		6 - 48 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	< 500 (6 - 30 V DC)
Voltage drop at I <sub>e</sub>	U <sub>d</sub>	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 <sub>r</sub>	mA	0.1
Switching state display		LED	Red
Connection			3-wire
Contacts			
N/O = Normally open			1 N/O
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			
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Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	70

## Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

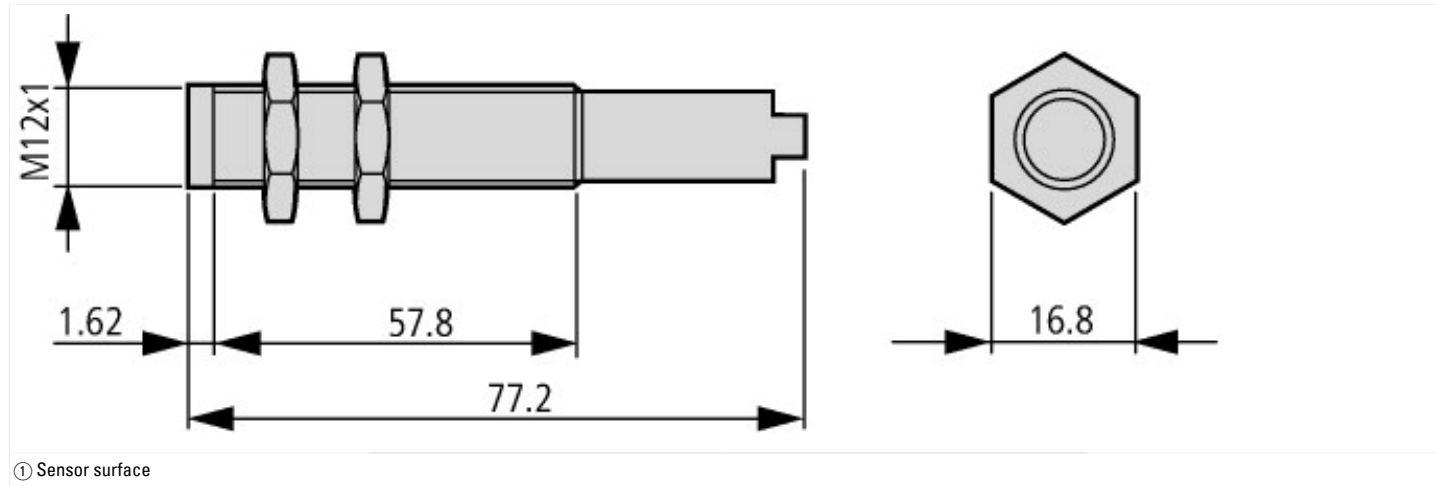
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ec@ss10.0.1-27-27-01-01 [AGZ376015])

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		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	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](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301003Z2018_05.pdf)