



Proximity switch, inductive, 1N/O,  $S_n=10\text{mm}$ , 3L, 6-48VDC, PNP, M12, metal, M12

**Part no.** E57-12LE10-BD  
**Article no.** 135907  
**Catalog No.** E57-12LE10-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	$U_e$		6 - 48 V DC
Rated switching distance	$S_n$	mm	10
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	$S_n$	mm	10
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	$I_e$	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/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

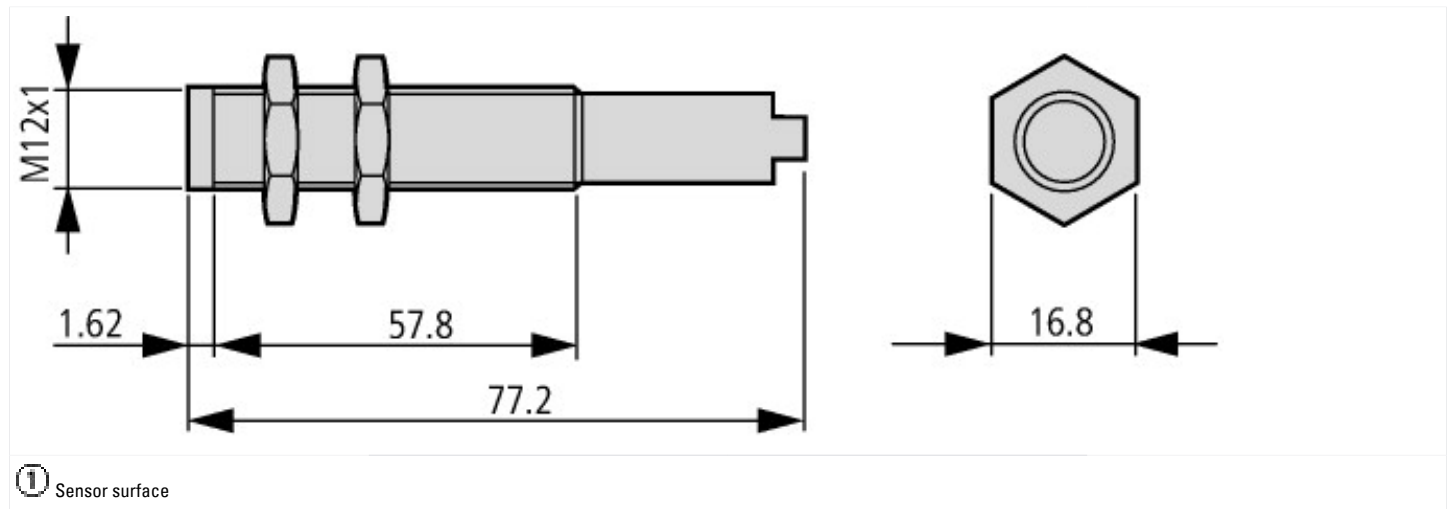
## Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

## 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



## 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/IL05301003Z2016\\_07.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301003Z2016_07.pdf)