



Proximity switch, inductive, 1N/O, S<sub>n</sub>=2mm, 2L, 20-250VAC, M12, metal, line 2m

Part no. **E57-12GS02-A**  
Article no. **135879**  
Catalog No. **E57-12GS02-A**

## Delivery program

Basic function			Inductive Sensors
Product range			E57 Global Series
Connection			2-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	U <sub>e</sub>		20 - 250 V AC
Rated switching distance	S <sub>n</sub>	mm	2
Type of mounting			Flush
For connection of:			2 m connection cable

## Contacts

N/O = Normally open			1 N/O
Material			Metal
Degree of Protection			IP67, IP69K

## 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, IP69K

### Characteristics

Rated switching distance			
Rated switching distance	S <sub>n</sub>	mm	2
Repetition accuracy of S <sub>n</sub>		%	1
Temperature drift of S <sub>n</sub>		%	10
Switching hysteresis of S <sub>n</sub>		%	15
Rated operational voltage	U <sub>e</sub>		20 - 250 V AC
Maximum load current	I <sub>e</sub>	mA	< 200
Voltage drop at I <sub>e</sub>	U <sub>d</sub>	V	8
Switching Frequency		Hz	25
Min. load current	I <sub>e</sub>	mA	5
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I <sub>r</sub>	mA	1.8
Switching state display		LED	Red
Connection			2-wire
Contacts			
N/O = Normally open			1 N/O
Style			
Design (outer dimensions)		mm	M12 x 1
For connection of:			2 m connection cable
Material			Metal

## Design verification as per IEC/EN 61439

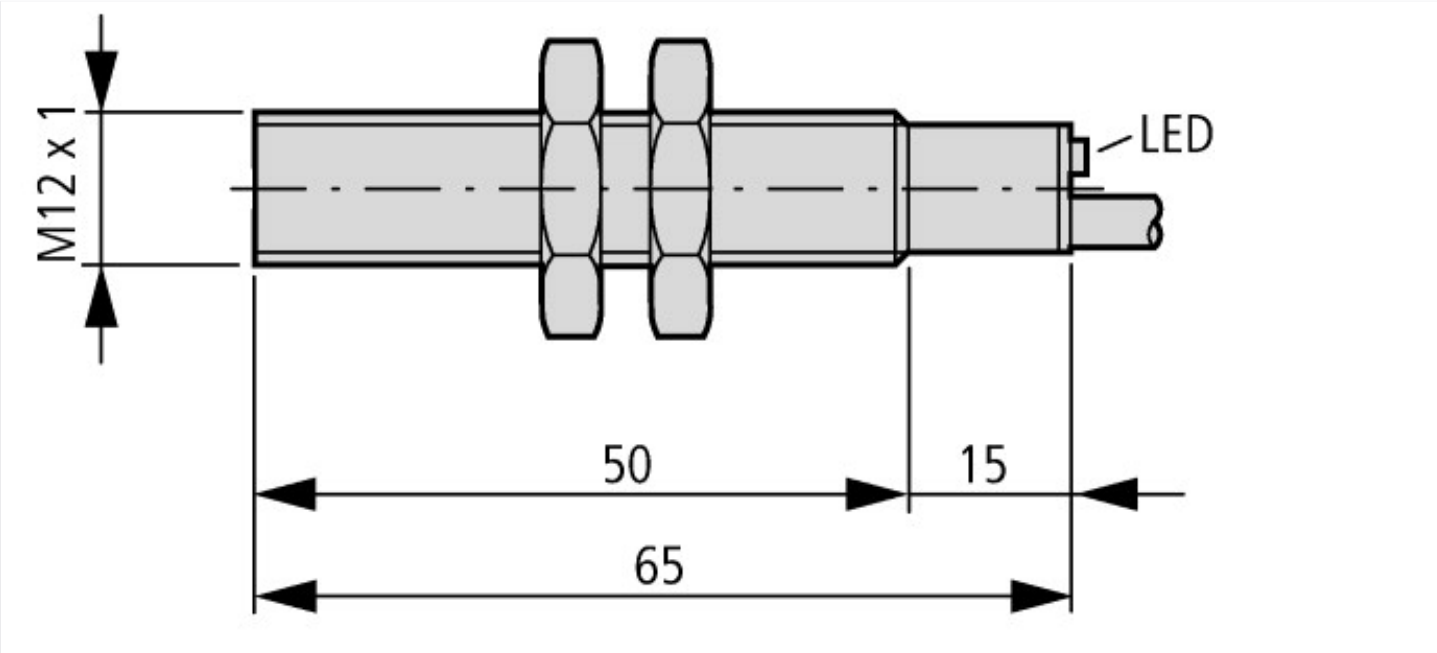
Technical data for design verification			
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70

## Approvals

Product Standards			UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
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UL File No.		CSA report applies to both Canada and US
UL Category Control No.		–
CSA File No.		224447
CSA Class No.		4652-04 / 4652-84
North America Certification		CSA certified, certified by CSA for use in the US
Max. Voltage Rating		250 V AC
Degree of Protection		IEC: IP67, IP69K; UL/CSA Type: -

### Dimensions



### Additional product information (links)

IL05301002Z Global Series Inductive Sensors	
IL05301002Z Global Series Inductive Sensors	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2016_07.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2016_07.pdf</a>