



Proximity switch, inductive, 1N/O,  $S_n=2\text{mm}$ , 3L, 10-30VDC, NPN, M12, metal, M12

**Part no.** E57-12GS02-CDB  
**Article no.** 135882  
**Catalog No.** E57-12GS02-CDB

## Delivery program

Basic function			Inductive Sensors
Product range			E57 Global Series
Connection			3-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	$U_e$		10 - 30 V DC
Rated switching distance	$S_n$	mm	2
Type of mounting			Flush
Switching type			NPN
For connection of:			Plug-in connection M12 x 1
<b>Contacts</b>			
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	$S_n$	mm	2
Repetition accuracy of $S_n$		%	1
Temperature drift of $S_n$		%	10
Switching hysteresis of $S_n$		%	15
Rated operational voltage	$U_e$		10 - 30 V DC
Residual ripple of $U_e$		%	10
Maximum load current	$I_e$	mA	< 100
Operating current in the switched state at 24 V DC	$I_b$	mA	10
Voltage drop at $I_e$	$U_d$	V	1.5
Switching Frequency		Hz	2000
Residual current through the load in the blocked state at 230 V AC and 24 V DC	$I_r$	mA	0.01
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
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			Metal

## Design verification as per IEC/EN 61439

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

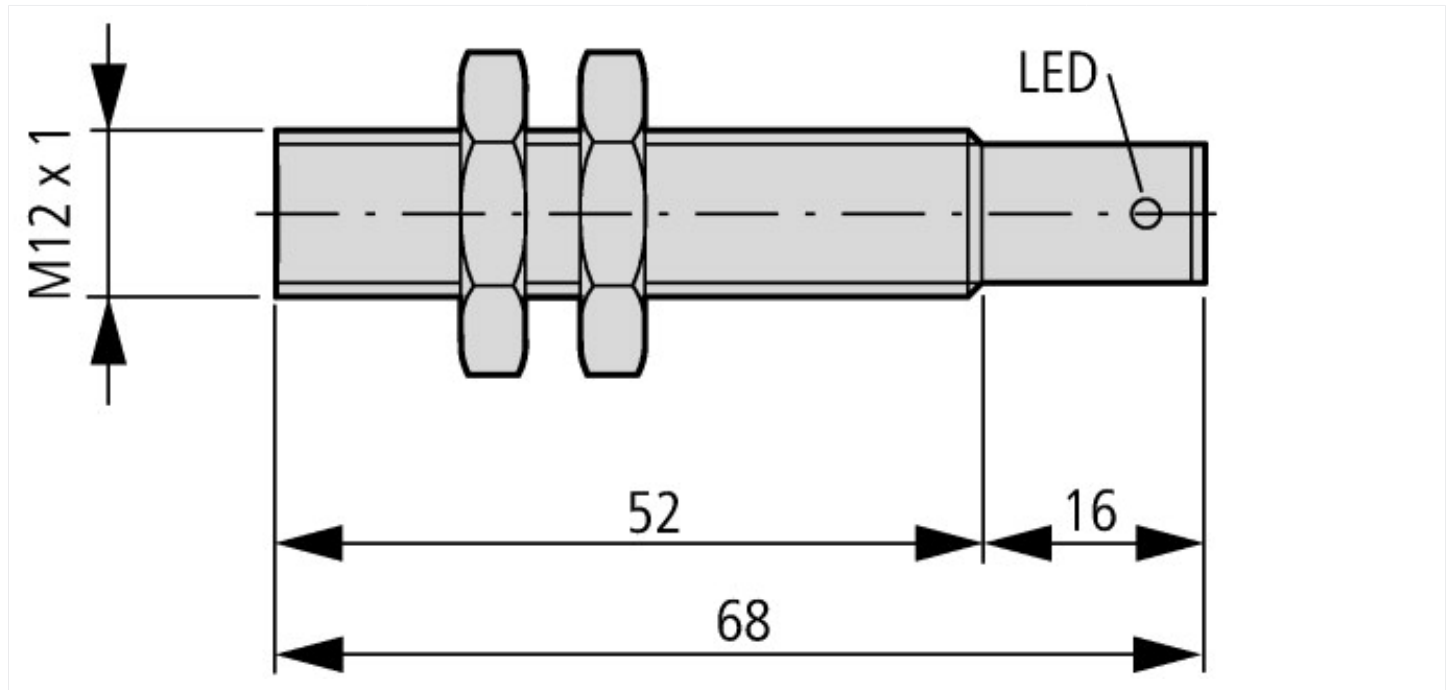
Operating ambient temperature max.

°C 70

## Approvals

Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
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	30 V DC
Degree of Protection	IEC: IP67, IP69K; UL/CSA Type: -

## Dimensions



## Additional product information (links)

### IL05301002Z Global Series Inductive Sensors

IL05301002Z Global Series Inductive Sensors [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL05301002Z2016\\_07.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2016_07.pdf)