



Proximity switch, E57 Global Series, 1 N/O, 3-wire, 10 - 30 V DC, M12 x 1 mm, S<sub>n</sub>= 4 mm, Non-flush, PNP, Metal, 2 m connection cable



Powering Business Worldwide™

**Part no.** E57-12GU04-G  
**Catalog No.** 135894  
**Alternate Catalog No.** E57-12GU04-G

## 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 <sub>e</sub>		10 - 30 V DC
Rated switching distance	S <sub>n</sub>	mm	4
Type of mounting			Non-flush
Switching type			PNP
For connection of:			2 m connection cable
<b>Contacts</b>			
N/O = Normally open			1 N/O
Material			Metal
Degree of Protection			IP67, IP69

## 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, IP69

### Characteristics

Rated switching distance			
Rated switching distance	S <sub>n</sub>	mm	4
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>		10 - 30 V DC
Residual ripple of U <sub>e</sub>		%	10
Maximum load current	I <sub>e</sub>	mA	< 100
Operating current in the switched state at 24 V DC	I <sub>b</sub>	mA	20
Voltage drop at I <sub>e</sub>	U <sub>d</sub>	V	1.5
Switching Frequency		Hz	1000
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I <sub>r</sub>	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:			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

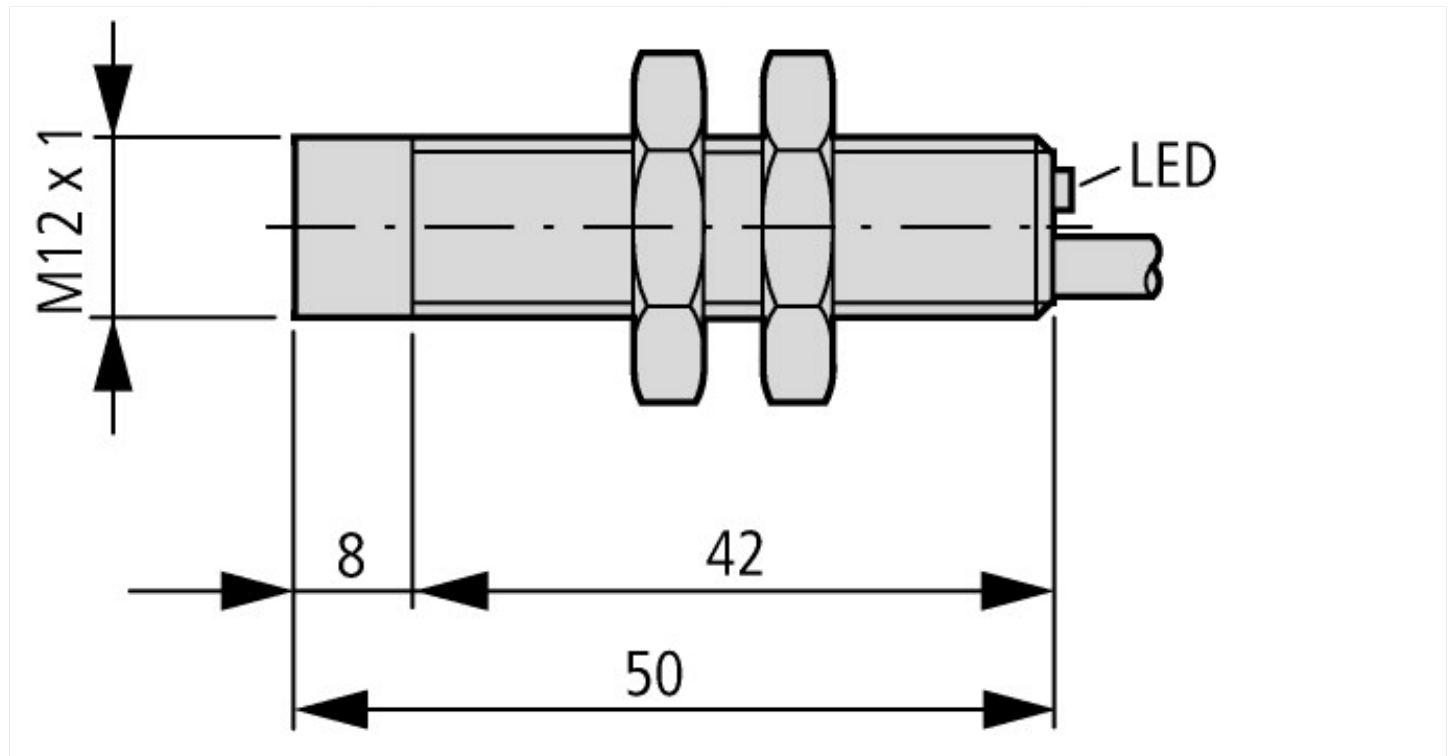
## Technical data ETIM 6.0

Sensors (EG000026) / Inductive proximity switch (EC002714)		
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss8.1-27-27-01-01 [AGZ376012])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	50
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	4
Suitable for safety functions		No
Type of switch function		Normally open contact
Type of switching output		PNP
Type of electric connection		Cable
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. to EN ISO 13849-1		None
Max. output current at protected output	mA	0
Supply voltage	V	10 - 30
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	10 - 30
Voltage type		DC
Switching frequency	Hz	1000
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		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/IL05301002Z2018\\_05.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2018_05.pdf)