#### **DATASHEET - E57-12GU04-G**



Proximity switch, E57 Global Series, 1 N/O, 3-wire, 10 - 30 V DC, M12  $\times$  1 mm, Sn= 4 mm, Non-flush, PNP, Metal, 2 m connection cable



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

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Basic function			Inductive Sensors
Dasic function			muucuve 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	$S_n$	mm	4
Type of mounting			Non-flush
Switching type			PNP
For connection of:			2 m connection cable
Contacts			
N/O = Normally open			1 N/O
Material			Metal
Degree of Protection			IP67, IP69

### **Technical data**

#### General

delicial			
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	$S_n$	mm	4
Repetition accuracy of $S_n$		%	1
Temperature drift of $S_n$		%	10
Switching hysteresis of $S_n$		%	15
Rated operational voltage	U <sub>e</sub>		10 - 30 V DC
Residual ripple of $U_{e}$		%	10
Maximum load current	le	mA	< 100
Operating current in the switched state at 24 V DC	I <sub>b</sub>	mA	20
Voltage drop at $I_e$	$U_{d}$	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/0
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**

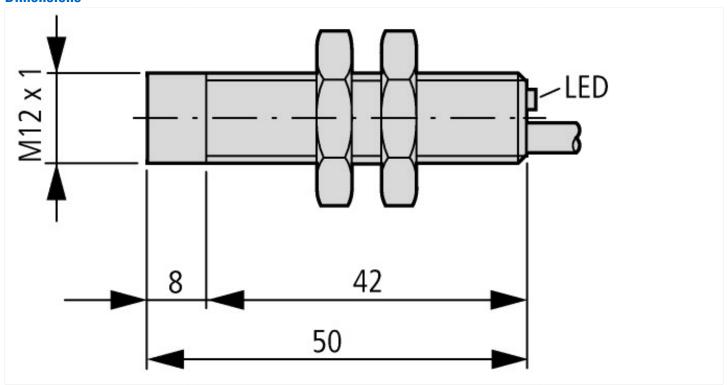
Sensors (EG000026) / Inductive proximity switch (EC002714)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch

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Electric engineering, automation, process control engineering / Binary sensor te (ecl@ss8.1-27-27-01-01 [AGZ376012])	ectric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch cl@ss8.1-27-27-01-01 [AGZ376012])		
Width sensor	mm	m 0	
Height of sensor	mm	m 0	
Length of sensor	mm	m 50	
Diameter sensor	mm	m 12	2
Mechanical mounting condition for sensor		N	ot flat
Switching distance	mm	m 4	
Suitable for safety functions		N	0
Type of switch function		N	ormally open contact
Type of switching output		P	NP
Type of electric connection		C	able
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		M	letallic Target
Type of interface		N	one
Type of interface for safety communication		N	one
Construction type housing		C	ylinder, screw-thread
Coating housing		0	ther
Cascadable		N	0
Category according to EN 954-1		В	
SIL according to IEC 61508		N	one
Performance level acc. to EN ISO 13849-1		N	one
Max. output current at protected output	mA	Α 0	
Supply voltage	V	10	O - 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	0 - 30
Voltage type		D	С
Switching frequency	Hz	10	000
With monitoring function downstream switching devices		N	0
Material housing		N	letal
Compression-resistant		N	0
Explosion safety category for gas		N	one
Explosion safety category for dust		N	one
Interference resistance to magnetic fields		-	

## Approvals

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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