DATASHEET - E57-12GE05-CDB



Proximity switch, inductive, 1N/O, Sn=5mm, 3L, 10-30VDC, NPN, M12, metal, M12 $\,$



Part no. E57-12GE05-CDB

Catalog No. 135868

Eaton Catalog No. E57-12GE05-CDB

Delivery program

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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	5
Type of mounting			Flush
Switching type			NPN
For connection of:			Plug-in connection M12 x 1
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			0 - +60
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP67, IP69K
Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	5
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	le	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/0
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

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Technical data for design verification			
Operating ambient temperature min.	°(С	0
Operating ambient temperature max.	°(С	60

Technical data ETIM 7.0				
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@ss10.0.1-27-27-01-01 [AGZ376015])				
Width sensor	mm	0		
Height of sensor	mm	0		
Length of sensor	mm	69		
Diameter sensor	mm	12		
Mechanical mounting condition for sensor		Concise		
Switching distance	mm	5		
Suitable for safety functions		No		
Type of switch function		Normally open contact		
Type of switching output		NPN		
Type of electric connection		Plug-in connection M12		
Type of electric connection		Connector M12		
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		В		
SIL according to IEC 61508		None		
Performance level acc. 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		
Voltage type		DC		
Switching frequency	Hz	2000		
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				

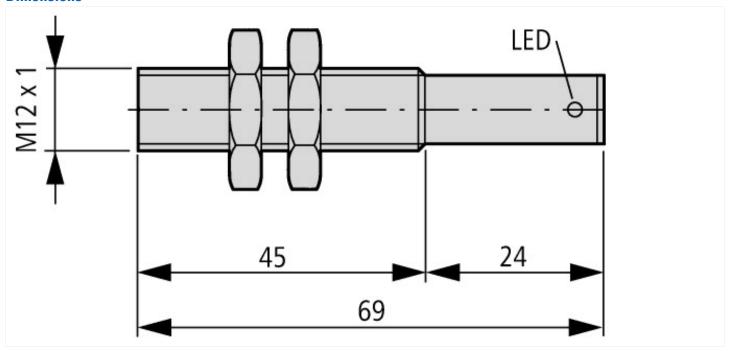
Approvals

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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

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2018_05.pdf