DATASHEET - E57-12GU04-CDB



Proximity switch, inductive, 1N/O, Sn=4mm, 3L, 10-30VDC, NPN, M12, metal, M12 $\,$



Part no. E57-12GU04-CDB

Catalog No. 135890

Eaton Catalog No. E57-12GU04-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	4
Type of mounting			Non-flush
Switching type			NPN
For connection of:			Plug-in connection M12 x 1
Contacts			
N/O = Normally open			1 N/0
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	4
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	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 _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

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

Fechnical 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])				
Nidth sensor		mm	0	
Height of sensor		mm	0	
ength of sensor		mm	69	
Diameter sensor		mm	12	
Mechanical mounting condition for sensor			Not flat	
witching distance		mm	4	
Suitable for safety functions			No	
ype of switch function			Normally open contact	
ype of switching output			NPN	
Type of electric connection			Plug-in connection M12	
ype of electric connection			Connector M12	
lumber of semiconductor outputs with signalling function			1	
lumber of contact energized outputs with signalling function			0	
lumber of protected semiconductor outputs			0	
lumber of protected contact energized outputs			0	
ype of actuation			Metallic Target	
ype of interface			None	
ype of interface for safety communication			None	
Construction type housing			Cylinder, screw-thread	
Coating housing			Other	
Cascadable			No	
Category according to EN 954-1			В	
IL according to IEC 61508			None	
Performance level acc. EN ISO 13849-1			None	
Max. output current at protected output		mA	0	
Supply voltage		٧	10 - 30	
Rated control supply voltage Us at AC 50HZ		٧	0 - 0	
Rated control supply voltage Us at AC 60HZ		٧	0 - 0	
Rated control supply voltage Us at DC		٧	10 - 30	
oltage type			DC	
oltage type			DC	
witching frequency		Hz	1000	
Vith monitoring function downstream switching devices			No	
Material housing			Metal	
Compression-resistant			No	
explosion safety category for gas			None	
xplosion safety category for dust			None	

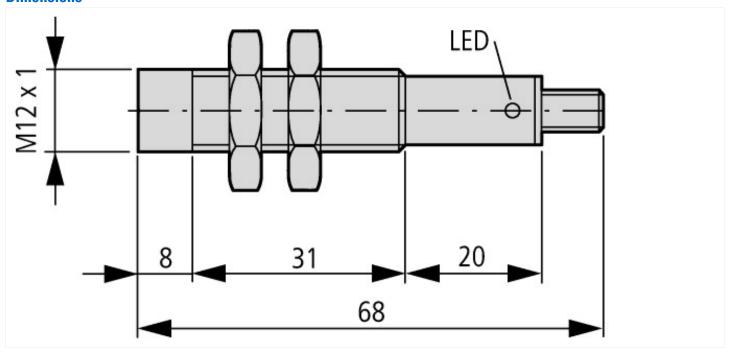
Approvals

Interference resistance to magnetic fields

7166101010	
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