DATASHEET - E57-18GU08-CDB



Proximity switch, inductive, 1N/O, Sn=8mm, 3L, 10-30VDC, NPN, M18, metal, M12 $\,$



Part no. E57-18GU08-CDB

Catalog No. 135936

Eaton Catalog No. E57-18GU08-CDB

Delivery program

Basic function			Inductive Sensors
Product range			E57 Global Series
Connection			3-wire
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S _n	mm	8
Type of mounting			Non-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			-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	8
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	500
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	M18 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

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		
Length of sensor	mm	76		
Diameter sensor	mm	18		
Mechanical mounting condition for sensor		Not flat		
Switching distance	mm	8		
Suitable for safety functions		No		
Type of switch function		Normally open contact		
Type of switching output		NPN		
Type of electric connection		Connector M12		
Type of electric connection		Plug-in connection 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		
/oltage type		DC		
/oltage type		DC		
Switching frequency	Hz	500		
Nith monitoring function downstream switching devices		No		
Material housing		Metal		
Compression-resistant		No		
Explosion safety category for gas		None		
Explosion safety category for dust		None		
nterference resistance to magnetic fields				

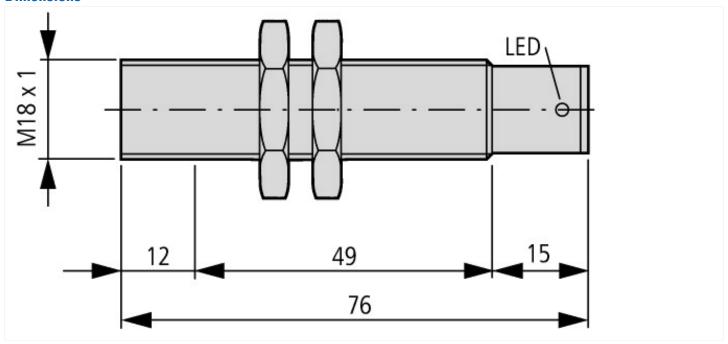
Approvals

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