



Proximity switch, E57 Global Series, 1 N/O, 2-wire, 10 - 30 V DC, M18 x 1 mm, S<sub>n</sub> = 5 mm, Flush, NPN/PNP, Metal, Plug-in connection M12 x 1

Part no. E57-18GS05-DOB  
Catalog No. 135930  
Alternate Catalog No. E57-18GS05-DOB

## Delivery program

Basic function			Inductive Sensors
Product range			E57 Global Series
Connection			2-wire
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U <sub>e</sub>		10 - 30 V DC
Rated switching distance	S <sub>n</sub>	mm	5
Type of mounting			Flush
Switching type			NPN/PNP
For connection of:			Plug-in connection M12 x 1
<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	5
Repetition accuracy of S <sub>n</sub>		%	2
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	10
Voltage drop at I <sub>e</sub>	U <sub>d</sub>	V	6
Switching Frequency		Hz	1000
Min. load current	I <sub>e</sub>	mA	3
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I <sub>r</sub>	mA	0.8
Switching state display		LED	Red
Connection			2-wire
Contacts			
N/O = Normally open			1 N/O
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

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 (ecI@ss10.0.1-27-27-01-01 [AGZ376015])			
Width sensor		mm	0
Height of sensor		mm	0
Length of sensor		mm	76
Diameter sensor		mm	18
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			Two-wire
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			B
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
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: -

Assets (links)

Declaration of CE Conformity

00003158

Instruction Leaflets

IL05301002Z2018\_05

Additional product information (links)

IL05301002Z Global Series Inductive Sensors	
IL05301002Z Global Series Inductive Sensors	<a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2018_05.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301002Z2018_05.pdf</a>