Proximity switch, E57 Global Series, 1 N/O, 3-wire, 10 - 30 V DC, M12 x 1 mm, Sn= 5 mm, Flush, PNP, Metal, Plug-in connection M12 x 1



Part no. E57-12GE05-GDB

135870

EL Number

4315369

(Norway)

(Norway)	
	5 . M # 0 F==0
Product name	Eaton Moeller® series E57 Proximity switch
Part no.	E57-12GE05-GDB
EAN	4015081326631
Product Length/Depth	114.3 millimetre
Product height	12.7 millimetre
Product width	25.4 millimetre
Product weight	0.026 kilogram
Certifications	CSA CSA File No.: 224447 CSA Class No.: 4652-04 / 4652-84 IEC/EN 60947-5-2 UL 508 CE UL File No.: CSA report applies to both US and Canada CSA-C22.2 No. 14
Product Tradename	E57
Product Type	Proximity switch
Product Sub Type	None
Actuation type	Metallic Target
Ambient operating temperature - max	60 °C
Ambient operating temperature - min	0 °C
Category (EN 954-1)	В
Connection type	3-wire Plug-in connection M12 x 1
Degree of protection	IP67 IP69 NEMA Other
Diameter sensor	12 mm
Diameter sensor [7EF007111]	mm
EL number	4315369
Electric connection type	Plug-in connection
Enclosure material	Metal
Enclosure material finishing	Other
Enclosure type	Cylinder, screw-thread
Explosion safety category for dust	None
Explosion safety category for gas	None
Functions	Protection against wire breakage Short-circuit protection Protection against polarity reversal
Height of sensor [7EF007283]	mm
Installation type	Concise
Interface type	None
LED indicator	Status indication of Switching state: Red LED
Length of sensor [7EF007334]	mm
Load current	Max. 100 mA (le)
Material	Metal
Max. output current at protected output [7EF004035]	mA
Mounting method	Flush mounting
Number of contact energized outputs with signalling function	0
Number of contacts (normally open contacts)	1
Hambor of contacts from many open contacts)	

Number of outputs (protected contact energized)	0
Number of outputs (protected semiconductor)	0
Number of outputs (semiconductor with signaling function)	1
Operational current (Ib) in the switched state at 24 V DC	10 A
Output current at protected output - max	0 mA
Product category	E57 Global Series
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at DC - max	30 V
Rated control supply voltage (Us) at DC - min	10 V
Rated control supply voltage Us at AC 50HZ [7EF003978]	V
Rated control supply voltage Us at AC 60HZ [7EF003979]	V
Rated control supply voltage Us at DC [7EF003980]	V
Rated switching distance (Sn) - max	5 mm
Repeatability	1 %
Residual current	0.01 mA (through the load in the blocked state at 230 V AC and 24 V DC)
Residual ripple	10 % (U#)
Safety performance level (EN ISO 13849-1)	None
Sensor height	0 mm
Sensor length	69 mm
Shock resistance	30 g, Mechanical, Shock duration 11 ms
SIL (IEC 61508)	None
Supply voltage - max	30 V
Supply voltage - min	10 V
Supply voltage [7EF004127]	V
Switch function type	Normally open contact
Switching distance [7EF003647]	mm
Switching frequency	2000 Hz
Switching frequency [7EF003587]	Hz
Switching hysteresis of Sn	15 %
Switching output type	PNP
Temperature drift of sn	10 %
Туре	Inductive sensor
Voltage drop (Ud)	1.5 V
Voltage rating - max	30 V
Voltage type	DC
Width sensor	0 mm
Width sensor [7EF007094]	mm

Technical data ETIM 8.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Safety-related proximity switch / Safety-related inductive proximity switch (ecl@ss10.0.1-27-27-24-01 [AKE630014])

proximity switch (ecl@ss10.0.1-27-27-24-01 [AKE630014])				
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		PNP		
Type of electric connection		Plug-in connection		
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
SIL according to IEC 61508		None
Performance level according to 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	2,000
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		
Degree of protection (NEMA)		Other