DATASHEET - E57G-12SNC2-C2



Proximity switch, E57G General Purpose Serie, 1 NC, 3-wire, 10 - 30 V DC, M12 \times 1 mm, Sn= 2 mm, Flush, NPN, Stainless steel, 2 m connection cable



Powering Business Worldwide

Part no. E57G-12SNC2-C2 Catalog No. 197675 Alternate Catalog E57G-12SNC2-C2

No.

110	livery	7 PAP	0 N P	2 122
112	IIVEL	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-

Product range Connection Design (outer dimensions) Rated operational voltage Rated switching distance Type of mounting Switching type For connection of: N/C = Normally closed Material E57G general purpose series 3-wire 10-30 V DC 10-30 V	Delivery program			
Connection Connection Design (outer dimensions) Rated operational voltage Rated switching distance Type of mounting Switching type For connection of: Contacts N/C = Normally closed Material Switch dimensions) Material Materi	Basic function			Inductive Sensors
Design (outer dimensions) Rated operational voltage Rated switching distance Rated switching distance Sonor mm Switching type For connection of: Contacts N/C = Normally closed Material M12 x 1 10 - 30 V DC 10 - 30 V	Product range			E57G general purpose series
Rated operational voltage Rated switching distance Type of mounting Switching type For connection of: Contacts N/C = Normally closed Material De to 10 - 30 V DC In Jonath Contacts In Jonath Contacts Stainless steel 10 - 30 V DC In Jonath Contacts In Jonath Contacts Stainless steel	Connection			3-wire
Rated switching distance Sn mm 2 Type of mounting Switching type For connection of: Contacts N/C = Normally closed Material Sn mm 2 Fush NPN Fush NPN 2 m connection cable 1 NC Stainless steel	Design (outer dimensions)		mm	M12 x 1
Type of mounting Switching type NPN For connection of: Contacts N/C = Normally closed Material Flush NPN 2 m connection cable 2 m connection cable 1 NC Stainless steel	Rated operational voltage	U _e		10 - 30 V DC
Switching type NPN For connection of: Contacts N/C = Normally closed Material NPN 2 m connection cable 1 NC Stainless steel	Rated switching distance	S_n	mm	2
For connection of: Contacts N/C = Normally closed Material 2 m connection cable 1 NC Stainless steel	Type of mounting			Flush
Contacts N/C = Normally closed 1 NC Material Stainless steel	Switching type			NPN
N/C = Normally closed 1 NC Material Stainless steel	For connection of:			2 m connection cable
Material Stainless steel	Contacts			
	N/C = Normally closed			1 NC
Degree of Protection IP67	Material			Stainless steel
	Degree of Protection			IP67

IEC/EN 60947-5-2

Technical data

For connection of:

Material

General Standards

Ambient temperature			-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP67
Vibration			Amplitude 1 mm: 10 - 55 Hz
Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	2
Repetition accuracy of S _n		%	1
Temperature drift of S_n		%	10
Switching hysteresis of S_n		%	20
Range		mm	2
Rated operational voltage	U _e		10 - 30 V DC
Maximum load current	I _e	mA	< 100
Operating current in the switched state at 24 V DC	I _b	mA	10
Voltage drop at I _e	U_{d}	V	2.5
Switching Frequency		Hz	2000
Response time		ms	200
Min. load current	I _e	mA	1
Switching state display		LED	Yellow
Protective functions			Short-circuit protective device
Connection			3-wire
Contacts			
N/C = Normally closed			1 NC
Style			
Design (outer dimensions)		mm	M12 x 1

2 m connection cable

Stainless steel

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

Toomitour data Erim 7.0			
Sensors (EG000026) / Inductive proximity switch (EC002714)			
Electric engineering, automation, process control engineering / Binary senso (ecl@ss10.0.1-27-27-01-01 [AGZ376015])	r technology, safety	-related s	ensor technology / Proximity switch / Inductive proximity switch
Width sensor		mm	0
Height of sensor		mm	0
Length of sensor		mm	64.1
Diameter sensor		mm	12
Mechanical mounting condition for sensor			Concise
Switching distance		mm	2
Suitable for safety functions			No
Type of switch function			Breaker contact
Type of switching output			NPN
Type of electric connection			Cable
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
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

Product Standards	UL 508/CSA-C22.2 No. 14
UL File No.	E166051
UL Category Control No.	NRKH, NRKH7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 1

Additional product information (links)

IL053003EN Inductive sensors: E57 performance (short body), E57G General Purpose Series Inductive Proximity Sensors

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL053003EN2018_10.pdf

IL053003EN Inductive sensors: E57 performance (short body), E57G General Purpose Series Inductive Proximity Sensors