



Proximity switch, E57P Performance Serie, 1 N/O, 3-wire, 10 – 48 V DC, M12 x 1 mm, S_n= 4 mm, Non-flush, NPN, Stainless steel, 2 m connection cable



Part no. E57P-12UNN4-C2
Catalog No. 197781
Alternate Catalog No. E57P-12UNN4-C2

Delivery program

Basic function			Inductive Sensors
Product range			E57P performance series
Connection			3-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	U _e		10 – 48 V DC
Rated switching distance	S _n	mm	4
Type of mounting			Non-flush
Switching type			NPN
For connection of:			2 m connection cable
Contacts			
N/O = Normally open			1 N/O
Material			Stainless steel
Degree of Protection			IP69

Technical data

General

Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP69
Vibration			Amplitude 1 mm: 10 - 55 Hz

Characteristics

Rated switching distance			
Rated switching distance	S _n	mm	4
Repetition accuracy of S _n		%	3
Temperature drift of S _n		%	10
Switching hysteresis of S _n		%	20
Range		mm	4
Rated operational voltage	U _e		10 – 48 V DC
Maximum load current	I _e	mA	< 300
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/O = Normally open			1 N/O
Style			
Design (outer dimensions)		mm	M12 x 1
For connection of:			2 m connection cable

Material		Stainless steel
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Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-40
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 (ecl@ss10.0.1-27-27-01-01 [AGZ376015])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	64.1
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	4
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		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	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 Type1, NEMA Type 6P, 4X

Additional product information (links)

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

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