



Proximity switch, E57P Performance Serie, 1 NC, 3-wire, 10 – 48 V DC, M18 x 1 mm, S<sub>n</sub>= 5 mm, Flush, NPN, Stainless steel, 2 m connection cable



**Part no.** E57P-18SNC5-C2  
**Catalog No.** 197787  
**Alternate Catalog No.** E57P-18SNC5-C2

## Delivery program

Basic function			Inductive Sensors
Product range			E57P performance series
Connection			3-wire
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U <sub>e</sub>		10 – 48 V DC
Rated switching distance	S <sub>n</sub>	mm	5
Type of mounting			Flush
Switching type			NPN
For connection of:			2 m connection cable
<b>Contacts</b>			
N/C = Normally closed			1 NC
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 <sub>n</sub>	mm	5
Repetition accuracy of S <sub>n</sub>		%	1
Temperature drift of S <sub>n</sub>		%	10
Switching hysteresis of S <sub>n</sub>		%	20
Range		mm	5
Rated operational voltage	U <sub>e</sub>		10 – 48 V DC
Maximum load current	I <sub>e</sub>	mA	< 300
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	2.5
Switching Frequency		Hz	1200
Response time		ms	200
Min. load current	I <sub>e</sub>	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	M18 x 1
For connection of:			2 m connection cable
Material			Stainless steel

## 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	65.9
Diameter sensor		mm	18
Mechanical mounting condition for sensor			Concise
Switching distance		mm	5
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	1200
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**

