

**Proximity switch, E57P Performance Short Body Serie, 1 N/O, 3-wire, 10 – 48 V DC, M12 x 1 mm, Sn= 2 mm, Flush, PNP, Stainless steel, 2 m connection cable**



**Part no. E57PS-12SPN2-C2  
197825**

Product name	Eaton Moeller® series E57PS Proximity switch
Part no.	E57PS-12SPN2-C2
EAN	4015081949328
Product Length/Depth	40.9 millimetre
Product height	12 millimetre
Product width	12 millimetre
Product weight	0.079 kilogram
Certifications	UL File No.: E166051 UL Category Control No.: NRKH, NRKH7 IEC/EN 60947-5-2 UL 508 Certified by UL for use in Canada CSA-C22.2 No. 14 UL Listed
Product Tradename	E57PS
Product Type	Proximity switch
Product Sub Type	None
Actuation type	Metallic Target
Ambient operating temperature - max	70 °C
Ambient operating temperature - min	-40 °C
Category (EN 954-1)	B
Connection type	3-wire 2 m connection cable
Degree of protection	NEMA 6P IP69
Diameter sensor	12 mm
Diameter sensor [7EF007111]	mm
Electric connection type	Cable
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	Short-circuit protection
Height of sensor [7EF007283]	mm
Installation type	Concise
Interface type	None
LED indicator	Status indication of Switching state: Yellow LED
Length of sensor [7EF007334]	mm
Load current	1 - 300 mA (Ie)
Material	Stainless steel
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
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		E57P Performance 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		2 mm
Repeatability		1 %
Safety performance level (EN ISO 13849-1)		None
Sensor height		0 mm
Sensor length		40.9 mm
Shock resistance		30 g, Shock duration 11 ms, Half-Sinusoidal
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		20 %
Switching output type		PNP
Temperature drift of sn		10 %
Type		Inductive sensor
Voltage drop (Ud)		2.5 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 (ec1@ss10.0.1-27-27-24-01 [AKE630014])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	40.9
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Concise
Switching distance	mm	2
Suitable for safety functions		No
Type of switch function		Normally open contact
Type of switching output		PNP
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
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)			6P