

Proximity switch, E57P Performance Serie, 1 N/O, 3-wire, 10 – 48 V DC,
M18 x 1 mm, Sn= 5 mm, Flush, PNP, Stainless steel, 2 m connection cable



Powering Business Worldwide™

Part no. **E57P-18SPN5-C2**
197793

General specifications		
Product name		Eaton Moeller® series E57P Proximity switch
Part no.		E57P-18SPN5-C2
EAN		4015081949007
Product Length/Depth		65.9 millimetre
Product height		18 millimetre
Product width		18 millimetre
Product weight		0.138 kilogram
Certifications		UL File No.: E166051 IEC/EN 60947-5-2 UL Listed Certified by UL for use in Canada UL 508 UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14
Product Tradename		E57P
Product Type		Proximity switch
Product Sub Type		None
Product Specification Details		
Actuation type		Metallic Target
Ambient operating temperature - max		70 °C
Ambient operating temperature - min		-40 °C
Category (EN 954-1)		B
Connection type		2 m connection cable 3-wire
Degree of protection		NEMA 6P IP69
Diameter sensor		18 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
Installation type		Concise
Interface type		None
LED indicator		Status indication of Switching state: Yellow LED
Load current		1 - 300 mA (I _e)
Material		Stainless steel
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 (I _b) 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 (U _s) at AC, 50 Hz - max		0 V
Rated control supply voltage (U _s) 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 switching distance (Sn) - max		5 mm
Repeatability		1 %
Safety performance level (EN ISO 13849-1)		None
Sensor height		0 mm
Sensor length		65.9 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
Switch function type		Normally open contact
Switching frequency		1200 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

Technical data ETIM 9.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related inductive sensor / Safety-related inductive proximity switch (ec1@ss13-27-27-41-01 [AKE630019])

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		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 AC 50 Hz	V	0 - 0
Rated control supply voltage AC 60 Hz	V	0 - 0
Rated control supply voltage DC	V	10 - 30
Voltage type		DC
Switching frequency	Hz	

With monitoring function downstream switching devices			No
Housing material			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