

Proximity switch, E57P Performance Short Body Serie, 1 NC, 3-wire, 10 – 48 V DC, M30 x 1.5 mm, Sn= 15 mm, Non-flush, NPN, Stainless steel, Plug-in connection M12 x 1



**Part no. E57PS-30UNC15-Q  
197860**

General specifications		
Product name		Eaton Moeller® series E57PS Proximity switch
Part no.		E57PS-30UNC15-Q
EAN		4015081949670
Product Length/Depth		70.9 millimetre
Product height		30 millimetre
Product width		30 millimetre
Product weight		0.085 kilogram
Certifications		Certified by UL for use in Canada UL Listed UL Category Control No.: NRKH, NRKH7 IEC/EN 60947-5-2 UL File No.: E166051 UL 508 CSA-C22.2 No. 14
Product Tradename		E57PS
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		Plug-in connection M12 x 1 3-wire
Degree of protection		NEMA 6P IP69
Diameter sensor		30 mm
Electric connection type		Connector M12
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		Not flat
Interface type		None
LED indicator		Status indication of Switching state: Yellow LED
Load current		1 - 300 mA (Ie)
Material		Stainless steel
Mounting method		Non-flush mounting
Number of contact energized outputs with signalling function		0
Number of contacts (normally closed 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		48 V
Rated control supply voltage (Us) at DC - min		6 V
Rated switching distance (Sn) - max		15 mm
Repeatability		3 %
Safety performance level (EN ISO 13849-1)		None
Sensor height		0 mm
Sensor length		70.9 mm
Shock resistance		30 g, Shock duration 11 ms, Half-Sinusoidal
SIL (IEC 61508)		None
Supply voltage - max		48 V
Supply voltage - min		10 V
Switch function type		Breaker contact
Switching frequency		500 Hz
Switching hysteresis of Sn		20 %
Switching output type		NPN
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 (ecl@ss13-27-27-41-01 [AKE630019])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	70.9
Diameter sensor	mm	30
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	15
Suitable for safety functions		No
Type of switch function		Breaker contact
Type of switching output		NPN
Type of electric connection		Connector M12
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 - 48
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	6 - 48
Voltage type		DC

Switching frequency	Hz	500
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