

# Specifications



Photo is representative



## Eaton 197827

Eaton Moeller® series E57PS Proximity switch, E57P Performance Short Body Serie, 1 NC, 3-wire, 10 – 48 V DC, M12 x 1 mm, Sn= 4 mm, Non-flush, NPN, Stainless steel, 2 m connection cable

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series E57PS Proximity switch
<b>CATALOG NUMBER</b>	197827
<b>MODEL CODE</b>	E57PS-12UNC4-C2
<b>EAN</b>	4015081949342
<b>PRODUCT LENGTH/DEPTH</b>	64.1 mm
<b>PRODUCT HEIGHT</b>	12 mm
<b>PRODUCT WIDTH</b>	12 mm
<b>PRODUCT WEIGHT</b>	0.079 kg
<b>CERTIFICATIONS</b>	UL File No.: E166051 UL Category Control No.: NRKH, NRKH7 IEC/EN 60947-5-2 UL 508 UL Listed CSA-C22.2 No. 14 Certified by UL for use in Canada

## Product specifications

<b>TYPE</b>	Inductive sensor
<b>ELECTRIC CONNECTION TYPE</b>	Cable
<b>ENCLOSURE MATERIAL FINISHING</b>	Other
<b>ACTUATION TYPE</b>	Metallic Target
<b>ENCLOSURE MATERIAL</b>	Metal
<b>ENCLOSURE TYPE</b>	Cylinder, screw-thread
<b>CATEGORY (EN 954-1)</b>	B
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	None
<b>EXPLOSION SAFETY CATEGORY FOR GAS</b>	None
<b>SAFETY PERFORMANCE LEVEL (EN ISO 13849-1)</b>	None
<b>SIL (IEC 61508)</b>	None
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-40 °C
<b>DIAMETER SENSOR</b>	12 mm
<b>NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>NUMBER OF OUTPUTS (PROTECTED CONTACT ENERGIZED)</b>	0
<b>NUMBER OF OUTPUTS (PROTECTED SEMICONDUCTOR)</b>	0
<b>NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)</b>	1
<b>OPERATIONAL CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC</b>	10 A
<b>OUTPUT CURRENT AT PROTECTED OUTPUT - MAX</b>	0 mA
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V

## Resources

<b>BROCHURES</b>	<a href="#">eaton-sensors-brochure-br053001en-en-us.pdf</a>
<b>CATALOGUES</b>	<a href="#">Product Range Catalog Sensors – products, basic information, applications</a>
	<a href="#">DA-DC-00004651.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004655.pdf</a>
	<a href="#">DA-DC-00004650.pdf</a>
	<a href="#">DA-DC-00004656.pdf</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.E57PS-12UNC4-C2</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-inductive-proximity-sensors-e57g-il053003en.pdf</a>
<b>MCAD MODEL</b>	<a href="#">DA-CS-90_29320_008</a>
	<a href="#">DA-CD-90_29320_008</a>
<b>MULTIMEDIA</b>	<a href="#">We make what matters</a>

<b>FUNCTIONS</b>	Short-circuit protection
<b>VOLTAGE TYPE</b>	DC
<b>MOUNTING METHOD</b>	Non-flush mounting
<b>MATERIAL</b>	Stainless steel
<b>CONNECTION TYPE</b>	2 m connection cable 3-wire
<b>INSTALLATION TYPE</b>	Not flat
<b>DEGREE OF PROTECTION</b>	IP69 NEMA 6P
<b>INTERFACE TYPE</b>	None
<b>LED INDICATOR</b>	Status indication of Switching state: Yellow LED
<b>SWITCH FUNCTION TYPE</b>	Breaker contact
<b>LOAD CURRENT</b>	1 - 300 mA (Ie)
<b>SHOCK RESISTANCE</b>	30 g, Shock duration 11 ms, Half-Sinusoidal
<b>SWITCHING FREQUENCY</b>	2000 Hz
<b>WIDTH SENSOR</b>	0 mm
<b>PRODUCT CATEGORY</b>	E57P Performance series
<b>SWITCHING OUTPUT TYPE</b>	NPN
<b>TEMPERATURE DRIFT OF SN</b>	10 %
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	30 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	10 V
<b>RATED SWITCHING DISTANCE (SN) - MAX</b>	4 mm
<b>REPEATABILITY</b>	3 %
<b>SENSOR HEIGHT</b>	0 mm
<b>SENSOR LENGTH</b>	40.9 mm
<b>SUPPLY VOLTAGE - MAX</b>	30 V
<b>SUPPLY VOLTAGE - MIN</b>	10 V

<b>SWITCHING HYSTERESIS OF SN</b>	20 %
<b>VOLTAGE DROP (UD)</b>	2.5 V

<b>PROJECT NAME:</b>
<b>PROJECT NUMBER:</b>
<b>PREPARED BY:</b>
<b>DATE:</b>



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