

# Specifications

## Eaton 136042

Eaton Moeller® series E57 Proximity switch,  
E57 Premium+ Series, 1 NC, 2-wire, 20 - 250  
V AC, M18 x 1 mm, Sn= 5 mm, Flush,  
Stainless steel, 2 m connection cable

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series E57 Proximity switch
<b>CATALOG NUMBER</b>	136042
<b>MODEL CODE</b>	E57LBL18A2
<b>EAN</b>	4015081328352
<b>PRODUCT LENGTH/DEPTH</b>	160.02 mm
<b>PRODUCT HEIGHT</b>	48.26 mm
<b>PRODUCT WIDTH</b>	132.08 mm
<b>PRODUCT WEIGHT</b>	0.16 kg
<b>CERTIFICATIONS</b>	CSA-C22.2 No. 14 UL File No.: E166051 UL 508 CSA Class No.: 3211-03 UL Category Control No.: NRKH, NRKH7 CSA File No.: 50513 CE CSA IEC/EN 60947-5-2 UL

## 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>	-25 °C
<b>DIAMETER SENSOR</b>	18 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>	250 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>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004651.pdf</a> <a href="#">DA-DC-00004656.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-proximity-switches-e57-proximity-switch-3d-drawing-003.eps</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL05301003Z</a>
<b>MULTIMEDIA</b>	<a href="#">We make what matters</a>

<b>VOLTAGE TYPE</b>	AC
<b>MOUNTING METHOD</b>	Flush mounting
<b>MATERIAL</b>	Stainless steel
<b>CONNECTION TYPE</b>	2 m connection cable 2-wire
<b>INSTALLATION TYPE</b>	Concise
<b>DEGREE OF PROTECTION</b>	IP67 NEMA 4X, 6, 13
<b>INTERFACE TYPE</b>	None
<b>LED INDICATOR</b>	Status indication of Switching state: Red LED
<b>SWITCH FUNCTION TYPE</b>	Breaker contact
<b>LOAD CURRENT</b>	1 - 500 mA (I <sub>e</sub> , at 25 °C) 1 - 250 mA (I <sub>e</sub> , 70 °C)
<b>RESIDUAL CURRENT</b>	0.1 mA (through the load in the blocked state at 230 V AC and 24 V DC)
<b>SHOCK RESISTANCE</b>	30 g, Mechanical, Shock duration 11 ms
<b>SWITCHING FREQUENCY</b>	20 Hz
<b>VOLTAGE RATING - MAX</b>	250 V
<b>WIDTH SENSOR</b>	0 mm
<b>PRODUCT CATEGORY</b>	E57 Premium+ Series
<b>SWITCHING OUTPUT TYPE</b>	Two-wire
<b>TEMPERATURE DRIFT OF SN</b>	10 %
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	20 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	250 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	20 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
<b>RATED SWITCHING DISTANCE (SN) - MAX</b>	5 mm
<b>REPEATABILITY</b>	3 %
<b>SENSOR HEIGHT</b>	0 mm

SENSOR LENGTH	64 mm
SUPPLY VOLTAGE - MAX	250 V
SUPPLY VOLTAGE - MIN	20 V
SWITCHING HYSTERESIS OF SN	20 %
VOLTAGE DROP (UD)	2.5 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



**Eaton Corporation plc**  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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