

Specifications

Eaton 135946

Eaton Moeller® series E57 Proximity switch, E57 Premium+ Series, 1 NC, 3-wire, 6 - 48 V DC, M18 x 1 mm, Sn= 12 mm, Semi-shielded, NPN, Stainless steel, 2 m connection cable

General specifications

PRODUCT NAME	Eaton Moeller® series E57 Proximity switch
CATALOG NUMBER	135946
MODEL CODE	E57-18LE12-C1
EAN	4015081327393
PRODUCT LENGTH/DEPTH	152.4 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	127 mm
PRODUCT WEIGHT	0.09 kg
CERTIFICATIONS	IEC/EN 60947-5-2 CSA Class No.: none None CSA File No.: none



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Product specifications

TYPE	Inductive sensor
ELECTRIC CONNECTION TYPE	Cable
ENCLOSURE MATERIAL FINISHING	Other
ACTUATION TYPE	Metallic Target
ENCLOSURE MATERIAL	Metal
ENCLOSURE TYPE	Cylinder, screw-thread
CATEGORY (EN 954-1)	B
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
SAFETY PERFORMANCE LEVEL (EN ISO 13849-1)	None
SIL (IEC 61508)	None
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
DIAMETER SENSOR	18 mm
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
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V

Resources

BROCHURES	eaton-sensors-brochure-br053001en-en-us.pdf
CATALOGUES	Product Range Catalog Sensors – products, basic information, applications
DECLARATIONS OF CONFORMITY	DA-DC-00004656.pdf DA-DC-00004651.pdf
DRAWINGS	eaton-proximity-switches-e57-proximity-switch-dimensions-032.eps eaton-proximity-switches-e57-proximity-switch-3d-drawing-003.eps
ECAD MODEL	DA-CE-ETN.E57-18LE12-C1
INSTALLATION INSTRUCTIONS	IL05301003Z
MULTIMEDIA	We make what matters

VOLTAGE TYPE	DC
MOUNTING METHOD	Semi-shielded mounting
MATERIAL	Stainless steel
CONNECTION TYPE	2 m connection cable 3-wire
INSTALLATION TYPE	Concise
DEGREE OF PROTECTION	IP67 NEMA 4X, 6, 13
INTERFACE TYPE	None
LED INDICATOR	Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Breaker contact
LOAD CURRENT	Max. 500 mA (Ie, at 6 - 30 V DC)
RESIDUAL CURRENT	0.1 mA (through the load in the blocked state at 230 V AC and 24 V DC)
SHOCK RESISTANCE	30 g, Mechanical, Shock duration 11 ms
SWITCHING FREQUENCY	800 Hz
VOLTAGE RATING - MAX	48 V
WIDTH SENSOR	0 mm
PRODUCT CATEGORY	E57 Premium+ Series
SWITCHING OUTPUT TYPE	NPN
TEMPERATURE DRIFT OF SN	10 %
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	12 mm
REPEATABILITY	3 %
SENSOR HEIGHT	0 mm

SENSOR LENGTH	66.1 mm
SUPPLY VOLTAGE - MAX	48 V
SUPPLY VOLTAGE - MIN	6 V
SWITCHING HYSTERESIS OF SN	15 %
VOLTAGE DROP (UD)	2.5 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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