



Eaton 136211

Eaton Moeller® series E59 Proximity switch, inductive, 1N/O, Sn=10mm, 4L, 6-48VDC, NPN, PNP, M12, metal E59-M12C110D01-D1

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PRODUCT NAME	Eaton E59 AccuProx analog inductive proximity sensor
CATALOG NUMBER	136211
PRODUCT LENGTH/DEPTH	44.45 mm
PRODUCT HEIGHT	76.2 mm
PRODUCT WIDTH	44.45 mm
PRODUCT WEIGHT	0.05 kg
CERTIFICATIONS	Certified by UL for use in Canada IEC/EN 60947-5-2 UL Category Control No.: NRKH, NRKH7 CE UL 508 UL File No.: E166051 CSA-C22.2 No. 14 UL CSA File No.: UL report applies to both US and Canada

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TYPE	Inductive sensor
ELECTRIC CONNECTION TYPE	Plug-in connection
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	-40 °C
DIAMETER SENSOR	12 mm
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 (IB) IN THE SWITCHED STATE AT 24 V DC	15 A
OUTPUT CURRENT AT PROTECTED OUTPUT - MAX	0 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
FUNCTIONS	Short-circuit protection Protection against wire breakage

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	Protection against polarity reversal
VOLTAGE TYPE	DC
MOUNTING METHOD	Non-flush mounting
MATERIAL	Stainless steel
CONNECTION TYPE	3-wire Plug-in connection M12 x 1
INSTALLATION TYPE	Not flat
DEGREE OF PROTECTION	IP67 IP69 NEMA 4X, 6, 13
INTERFACE TYPE	None
LED INDICATOR	Status indication of Operating voltage: Green LED Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Normally open contact
LOAD CURRENT	1 - 300 mA (Ie)
RESIDUAL CURRENT	0.15 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	300 Hz
VOLTAGE RATING - MAX	48 V
WIDTH SENSOR	0 mm
PRODUCT CATEGORY	iProx 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	10 mm

REPEATABILITY	3 %
SENSOR HEIGHT	0 mm
SENSOR LENGTH	69 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:



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