

Specifications

Eaton 136210

Eaton Moeller® series E59 Proximity switch, inductive, 1 N/C, Sn=10mm, 4L, 6-48VDC, NPN, PNP, M12, metal E59-M12C110C02-D2

General specifications

PRODUCT NAME	Eaton E59 AccuProx analog inductive proximity sensor
CATALOG NUMBER	136210
MODEL CODE	E59-M12C110C02-D2
EAN	4015081330034
PRODUCT LENGTH/DEPTH	152.4 mm
PRODUCT HEIGHT	44.45 mm
PRODUCT WIDTH	127 mm
PRODUCT WEIGHT	0.45 kg
CERTIFICATIONS	IEC/EN 60947-5-2 CE UL 508 CSA-C22.2 No. 14 UL File No.: E166051 UL UL Category Control No.: NRKH, NRKH7 Certified by UL for use in Canada CSA File No.: UL report applies to both US and Canada

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	-40 °C
DIAMETER SENSOR	12 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	15 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
DECLARATIONS OF CONFORMITY	DA-DC-00004651.pdf DA-DC-00004656.pdf
DRAWINGS	eaton-proximity-switches-e59-proximity-switch-dimensions-002.eps eaton-proximity-switches-e57-proximity-switch-3d-drawing-002.eps
INSTALLATION INSTRUCTIONS	IL05301004Z
MULTIMEDIA	We make what matters

FUNCTIONS	Protection against wire breakage Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC
MOUNTING METHOD	Non-flush mounting
MATERIAL	Stainless steel
CONNECTION TYPE	3-wire 2 m connection cable
INSTALLATION TYPE	Not flat
DEGREE OF PROTECTION	IP69 IP67 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	Breaker contact
LOAD CURRENT	1 - 300 mA (I _e)
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	PNP
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	62 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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