

Specifications

Eaton 136215



Eaton iProx Series, Analog inductive proximity sensors, 6 - 48 V DC, d=18 mm, 1 N/O, 3-wire, Plug-in connection M12 x 1, Sn= 8 mm, Flush mounting, PNP/NPN, Stainless steel

General specifications

PRODUCT NAME	Eaton E59 AccuProx analog inductive proximity sensor
CATALOG NUMBER	136215
MODEL CODE	E59-M18A108D01-D1
EAN	4015081330089
PRODUCT LENGTH/DEPTH	44.45 mm
PRODUCT HEIGHT	76.2 mm
PRODUCT WIDTH	44.45 mm
PRODUCT WEIGHT	0.05 kg
CERTIFICATIONS	CE UL 508 UL File No.: E166051 UL Certified by UL for use in Canada CSA File No.: UL report applies to both US and Canada IEC/EN 60947-5-2 CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7

Product specifications

TYPE	Inductive sensor
ELECTRIC CONNECTION TYPE	Connector M12
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	18 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
FUNCTIONS	Protection against polarity reversal Protection against wire breakage Short-circuit protection
VOLTAGE TYPE	DC
MOUNTING METHOD	Flush mounting
MATERIAL	Stainless steel

Resources

BROCHURES	eaton-sensors-brochure-br053001en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-proximity-switch-declaration-of-conformity-eu251573en.pdf
DRAWINGS	eaton-proximity-switches-e59-proximity-switch-dimensions-009.eps 131I090
INSTALLATION INSTRUCTIONS	IL05301004Z
MULTIMEDIA	We make what matters

CONNECTION TYPE	Plug-in connection M12 x 1 3-wire
INSTALLATION TYPE	Concise
DEGREE OF PROTECTION	IP69 IP67 NEMA 4X, 6, 13
INTERFACE TYPE	None
LED INDICATOR	Status indication of Switching state: Red LED Status indication of Operating voltage: Green LED
SWITCH FUNCTION TYPE	Normally open 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	390 Hz
VOLTAGE RATING - MAX	48 V
PRODUCT CATEGORY	iProx Series
SWITCHING OUTPUT TYPE	PNP/NPN
TEMPERATURE DRIFT OF SN	10 %
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	8 mm
REPEATABILITY	1 %
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:
DATE:



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