

Specifications

Eaton 135870



Eaton Moeller series E57 Global Series, Proximity switch, 10 - 30 V DC, d=12 mm, 1 N/O, Plug-in connection M12 x 1, 3-wire, Sn= 5 mm, Flush mounting, PNP, Metal

General specifications

PRODUCT NAME	Eaton Moeller® series E57 Proximity switch
CATALOG NUMBER	135870
MODEL CODE	E57-12GE05-GDB
EAN	4015081326631
PRODUCT LENGTH/DEPTH	114.3 mm
PRODUCT HEIGHT	12.7 mm
PRODUCT WIDTH	25.4 mm
PRODUCT WEIGHT	0.026 kg
CERTIFICATIONS	UL File No.: CSA report applies to both US and Canada CSA UL 508 CSA File No.: 224447 IEC/EN 60947-5-2 CE CSA Class No.: 4652-04 / 4652-84 CSA-C22.2 No. 14

Product specifications

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	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °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	10 A
FUNCTIONS	Protection against wire breakage Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC
MOUNTING METHOD	Flush mounting
MATERIAL	Metal

Resources

BROCHURES	eaton-sensors-brochure-br053001en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-proximity-switch-declaration-of-conformity-eu251573en.pdf
DRAWINGS	eaton-proximity-switches-proximity-switch-dimensions-036.eps 131I090
ECAD MODEL	DA-CE-ETN.E57-12GE05-GDB
INSTALLATION INSTRUCTIONS	IL05301002Z
MULTIMEDIA	We make what matters

CONNECTION TYPE	3-wire Plug-in connection M12 x 1
INSTALLATION TYPE	Concise
DEGREE OF PROTECTION	IP67 IP69 NEMA Other
INTERFACE TYPE	None
LED INDICATOR	Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Normally open contact
LOAD CURRENT	Max. 100 mA (I _e)
RESIDUAL CURRENT	0.01 mA (through the load in the blocked state at 230 V AC and 24 V DC)
RESIDUAL RIPPLE	10 % (U _e)
SHOCK RESISTANCE	30 g, Mechanical, Shock duration 11 ms
SWITCHING FREQUENCY	2000 Hz
VOLTAGE RATING - MAX	30 V
PRODUCT CATEGORY	E57 Global Series
SWITCHING OUTPUT TYPE	PNP
TEMPERATURE DRIFT OF SN	10 %
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN) - MAX	5 mm
REPEATABILITY	1 %
SENSOR LENGTH	69 mm
SUPPLY VOLTAGE - MAX	30 V
SUPPLY VOLTAGE - MIN	10 V
SWITCHING HYSTERESIS OF SN	15 %
VOLTAGE DROP (UD)	1.5 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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