

Specifications

Eaton 134780

Eaton Moeller® series E53 Proximity switch, capacitive, Sn=20mm, 1N/O, 3L, PNP, 10-30VDC, M30, insulated material, M12



Photo is representative



General specifications

PRODUCT NAME	Eaton Moeller® series E53 Proximity switch
CATALOG NUMBER	134780
MODEL CODE	E53KAL30T111SD
EAN	4015081316328
PRODUCT LENGTH/DEPTH	88.9 mm
PRODUCT HEIGHT	25.4 mm
PRODUCT WIDTH	31.75 mm
PRODUCT WEIGHT	0.23 kg
CERTIFICATIONS	CE IEC/EN 60947-5-2

Product specifications

TYPE	Capacitive sensor
ELECTRIC CONNECTION TYPE	Plug-in connection
ENCLOSURE MATERIAL FINISHING	Other
FITTED WITH:	Status indication
ACTUATION TYPE	Other
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cylinder, screw-thread
CATEGORY (EN 954-1)	B
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Short-circuit protection Protection against wire breakage Protection against polarity reversal
VOLTAGE TYPE	DC
MOUNTING METHOD	Flush mounting
MATERIAL	Insulated material
CONNECTION TYPE	Plug-in connection M12 x 1 3-wire
INSTALLATION TYPE	Concise
DEGREE OF PROTECTION	NEMA 13 NEMA 12 NEMA 4 IP65
INTERFACE TYPE	None
LED INDICATOR	Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Normally open contact
LOAD CURRENT	Max. 300 mA (Ie)
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	20 mm
REPEATABILITY	10 %
SENSOR LENGTH	80 mm
SUPPLY VOLTAGE - MAX	30 V

Resources

CATALOGUES	Product Range Catalog Sensors – products, basic information, applications
DECLARATIONS OF CONFORMITY	eaton-proximity-switch-declaration-of-conformity-eu251575en.pdf eaton-proximity-switches-e53-proximity-switch-dimensions-008.eps eaton-proximity-switches-e53-proximity-switch-dimensions-006.eps
DRAWINGS	eaton-proximity-switches-e53-proximity-switch-dimensions-007.eps 1360DRW-93
INSTALLATION INSTRUCTIONS	IL05307002Z

SUPPLY VOLTAGE - MIN	10 V
SWITCHING HYSTERESIS OF SN	20 %
VOLTAGE DROP (UD)	2 V
VOLTAGE RATING - MAX	250 V
PRODUCT CATEGORY	E53 Capacitive Series
OPERATIONAL CURRENT (IB)	< 10 mA (in the switched state at 24 V DC)
RESIDUAL CURRENT	0.1 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	250 Hz
SWITCHING OUTPUT TYPE	PNP
TEMPERATURE DRIFT OF SN	10 %
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	30 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

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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