

Specifications

Eaton 134783

Eaton Moeller® series E53 Proximity switch, capacitive, Sn=25mm, 1N/O, 3L, NPN, 10-30VDC, M34, insulated material, M12 E53KAL34T110

General specifications

PRODUCT NAME	Eaton Moeller® series E53 Proximity switch
CATALOG NUMBER	134783
MODEL CODE	E53KAL34T110
EAN	4015081316359
PRODUCT LENGTH/DEPTH	165.1 mm
PRODUCT HEIGHT	12.7 mm
PRODUCT WIDTH	139.7 mm
PRODUCT WEIGHT	0.36 kg
CERTIFICATIONS	IEC/EN 60947-5-2 CE



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Product specifications

TYPE	Capacitive sensor
ELECTRIC CONNECTION TYPE	Cable
ENCLOSURE MATERIAL FINISHING	Other
FITTED WITH:	Status indication
ACTUATION TYPE	Other
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cylinder plain
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	AC
MOUNTING METHOD	Flush mounting
MATERIAL	Insulated material
CONNECTION TYPE	2 m connection cable 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 AC, 60 HZ - MIN	20 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED SWITCHING DISTANCE (SN)	25 mm

Resources

CATALOGUES	Product Range Catalog Sensors – products, basic information, applications
DECLARATIONS OF CONFORMITY	DA-DC-00004648.pdf DA-DC-00004653.pdf
DRAWINGS	eaton-proximity-switches-e53-proximity-switch-dimensions-003.eps eaton-proximity-switches-e53-proximity-switch-dimensions-002.eps eaton-proximity-switches-e53-proximity-switch-dimensions-004.eps
INSTALLATION INSTRUCTIONS	IL05307002Z

REPEATABILITY	10 %
SENSOR HEIGHT	0 mm
SENSOR LENGTH	80 mm
SUPPLY VOLTAGE - MAX	250 V
SUPPLY VOLTAGE - MIN	20 V
SWITCHING HYSTERESIS OF SN	20 %
VOLTAGE DROP (UD)	2 V
VOLTAGE RATING - MAX	250 V
WIDTH SENSOR	0 mm
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	NPN
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	34 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	1

(SEMICONDUCTOR WITH SIGNALING FUNCTION)	
OUTPUT CURRENT AT PROTECTED OUTPUT - MAX	0 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	20 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	250 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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