

Specifications



Eaton 134781

Eaton Moeller® series E53 Proximity switch, capacitive, Sn=35mm, 1N/O, 2L, 20-250VAC, M34, insulated material, line 2m

General specifications

PRODUCT NAME	Eaton Moeller® series E53 Proximity switch
CATALOG NUMBER	134781
MODEL CODE	E53KAL34A2E
EAN	4015081316335
PRODUCT LENGTH/DEPTH	152.4 mm
PRODUCT HEIGHT	44.45 mm
PRODUCT WIDTH	152.4 mm
PRODUCT WEIGHT	0.23 kg
CERTIFICATIONS	CE IEC/EN 60947-5-2



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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
VOLTAGE TYPE	AC
MOUNTING METHOD	Non-flush mounting
MATERIAL	Insulated material
CONNECTION TYPE	2 m connection cable 2-wire
INSTALLATION TYPE	Not flat
DEGREE OF PROTECTION	NEMA 12 NEMA 13 IP65 NEMA 4
INTERFACE TYPE	None
LED INDICATOR	Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Normally open contact
LOAD CURRENT	5 - 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)	35 mm
REPEATABILITY	10 %
SENSOR HEIGHT	0 mm
SENSOR LENGTH	80 mm
SUPPLY VOLTAGE - MAX	250 V

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

SUPPLY VOLTAGE - MIN	20 V
SWITCHING HYSTERESIS OF SN	20 %
VOLTAGE DROP (UD)	9 V
VOLTAGE RATING - MAX	250 V
WIDTH SENSOR	0 mm
PRODUCT CATEGORY	E53 Capacitive Series
OPERATIONAL CURRENT (IB)	< 2.5 mA (in the switched state at 24 V DC)
RATED SHORT-TIME WITHSTAND CURRENT	5 A (10 ms, 5 Hz)
RESIDUAL CURRENT	2.5 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
SUPPLY FREQUENCY	50 Hz, Input, min. Range 60 Hz, Input, max. Range
SWITCHING FREQUENCY	15 Hz
SWITCHING OUTPUT TYPE	Two-wire
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 (SEMICONDUCTOR WITH	1

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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