

# Specifications

## Eaton 134776

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



### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series E53 Proximity switch
<b>CATALOG NUMBER</b>	134776
<b>MODEL CODE</b>	E53KAL30T110SD
<b>EAN</b>	4015081316281
<b>PRODUCT LENGTH/DEPTH</b>	101.6 mm
<b>PRODUCT HEIGHT</b>	25.4 mm
<b>PRODUCT WIDTH</b>	88.9 mm
<b>PRODUCT WEIGHT</b>	0.23 kg
<b>CERTIFICATIONS</b>	CE IEC/EN 60947-5-2



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## Product specifications

<b>TYPE</b>	Capacitive sensor
<b>ELECTRIC CONNECTION TYPE</b>	Plug-in connection
<b>ENCLOSURE MATERIAL FINISHING</b>	Other
<b>FITTED WITH:</b>	Status indication
<b>ACTUATION TYPE</b>	Other
<b>ENCLOSURE MATERIAL</b>	Plastic
<b>ENCLOSURE TYPE</b>	Cylinder, screw-thread
<b>CATEGORY (EN 954-1)</b>	B
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	None
<b>EXPLOSION SAFETY CATEGORY FOR GAS</b>	None
<b>FUNCTIONS</b>	Short-circuit protection Protection against wire breakage Protection against polarity reversal
<b>VOLTAGE TYPE</b>	DC
<b>MOUNTING METHOD</b>	Flush mounting
<b>MATERIAL</b>	Insulated material
<b>CONNECTION TYPE</b>	Plug-in connection M12 x 1 3-wire
<b>INSTALLATION TYPE</b>	Concise
<b>DEGREE OF PROTECTION</b>	NEMA 13 NEMA 4 NEMA 12 IP65
<b>INTERFACE TYPE</b>	None
<b>LED INDICATOR</b>	Status indication of Switching state: Red LED
<b>SWITCH FUNCTION TYPE</b>	Normally open contact
<b>LOAD CURRENT</b>	Max. 300 mA (Ie)
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	30 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	10 V
<b>RATED SWITCHING</b>	20 mm

## Resources

<b>CATALOGUES</b>	<a href="#">Product Range Catalog Sensors – products, basic information, applications</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004648.pdf</a> <a href="#">DA-DC-00004653.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-proximity-switches-e53-proximity-switch-dimensions-008.eps</a> <a href="#">eaton-proximity-switches-e53-proximity-switch-dimensions-006.eps</a> <a href="#">eaton-proximity-switches-e53-proximity-switch-dimensions-007.eps</a> <a href="#">1360DRW-93</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL05307002Z</a>

<b>DISTANCE (SN)</b>	
<b>REPEATABILITY</b>	10 %
<b>SENSOR HEIGHT</b>	0 mm
<b>SENSOR LENGTH</b>	80 mm
<b>SUPPLY VOLTAGE - MAX</b>	30 V
<b>SUPPLY VOLTAGE - MIN</b>	10 V
<b>SWITCHING HYSTERESIS OF SN</b>	20 %
<b>VOLTAGE DROP (UD)</b>	2 V
<b>VOLTAGE RATING - MAX</b>	250 V
<b>WIDTH SENSOR</b>	0 mm
<b>PRODUCT CATEGORY</b>	E53 Capacitive Series
<b>OPERATIONAL CURRENT (IB)</b>	< 10 mA (in the switched state at 24 V DC)
<b>RESIDUAL CURRENT</b>	0.1 mA (through the load in the blocked state at 230 V AC and 24 V DC)
<b>RESIDUAL RIPPLE</b>	10 % (U <sub>e</sub> )
<b>SHOCK RESISTANCE</b>	30 g, Mechanical, Shock duration 11 ms
<b>SWITCHING FREQUENCY</b>	250 Hz
<b>SWITCHING OUTPUT TYPE</b>	NPN
<b>TEMPERATURE DRIFT OF SN</b>	10 %
<b>SAFETY PERFORMANCE LEVEL (EN ISO 13849-1)</b>	None
<b>SIL (IEC 61508)</b>	None
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>DIAMETER SENSOR</b>	30 mm
<b>NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION</b>	0
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF OUTPUTS (PROTECTED CONTACT ENERGIZED)</b>	0
<b>NUMBER OF OUTPUTS (PROTECTED SEMICONDUCTOR)</b>	0

NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)	1
OUTPUT CURRENT AT PROTECTED OUTPUT - MAX	0 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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