

# Specifications

## Eaton 135831

Eaton Moeller® series E55 Proximity switch, inductive, 1N/O, Sn=15mm, 3L, 10-30VDC, NPN, M30, insulated material, line 2m

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series E55 Proximity switch
<b>CATALOG NUMBER</b>	135831
<b>MODEL CODE</b>	E55CAL30T110E
<b>EAN</b>	4015081326242
<b>PRODUCT LENGTH/DEPTH</b>	165.1 mm
<b>PRODUCT HEIGHT</b>	31.75 mm
<b>PRODUCT WIDTH</b>	139.7 mm
<b>PRODUCT WEIGHT</b>	0.28 kg
<b>CERTIFICATIONS</b>	IEC/EN 60947-5-2 CE



Powering Business Worldwide

## Product specifications

<b>TYPE</b>	Inductive sensor
<b>ELECTRIC CONNECTION TYPE</b>	Cable
<b>ENCLOSURE MATERIAL FINISHING</b>	Other
<b>ACTUATION TYPE</b>	Metallic Target
<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>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
<b>NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)</b>	1
<b>OUTPUT CURRENT AT PROTECTED OUTPUT - MAX</b>	0 mA
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V
<b>FUNCTIONS</b>	Short-circuit protection Protection against polarity reversal

## Resources

<b>CATALOGUES</b>	<a href="#">Product Range Catalog</a> <a href="#">Sensors – products, basic information, applications</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004656.pdf</a> <a href="#">DA-DC-00004651.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-proximity-switches-e55-proximity-switch-dimensions-003.eps</a> <a href="#">131I090</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL05301005Z</a>
<b>MULTIMEDIA</b>	<a href="#">We make what matters</a>

<b>VOLTAGE TYPE</b>	DC
<b>MOUNTING METHOD</b>	Non-flush mounting
<b>MATERIAL</b>	Insulated material
<b>CONNECTION TYPE</b>	2 m connection cable 3-wire
<b>INSTALLATION TYPE</b>	Not flat
<b>DEGREE OF PROTECTION</b>	IP66 NEMA 4X, 13
<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. 200 mA (I <sub>e</sub> )
<b>RESIDUAL RIPPLE</b>	10 % (U <sub>e</sub> )
<b>SHOCK RESISTANCE</b>	30 g, Mechanical, Shock duration 11 ms
<b>SUPPLY FREQUENCY</b>	50 Hz, Input, min. Range 60 Hz, Input, max. Range
<b>SWITCHING FREQUENCY</b>	150 Hz
<b>VOLTAGE RATING - MAX</b>	30 V
<b>WIDTH SENSOR</b>	0 mm
<b>PRODUCT CATEGORY</b>	E55 Limit Switch Style Series
<b>SWITCHING OUTPUT TYPE</b>	NPN
<b>TEMPERATURE DRIFT OF SN</b>	10 %
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
<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 DISTANCE (SN) - MAX</b>	15 mm
<b>REPEATABILITY</b>	10 %
<b>SENSOR HEIGHT</b>	0 mm

SENSOR LENGTH	80 mm
SUPPLY VOLTAGE - MAX	30 V
SUPPLY VOLTAGE - MIN	10 V
SWITCHING HYSTERESIS OF SN	20 %
VOLTAGE DROP (UD)	8 V

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



**Eaton Corporation plc**  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

