

# LS31P31B11



LS31P31B11 Limit Switch



## General Information

Extended Product Type	LS31P31B11
Product ID	1SBV010131R1211
EAN	3471522000552
Catalog Description	LS31P31B11 Limit Switch
Long Description	LS31P31B11 Limit Switch

## Ordering

EAN	3471522000552
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

## Dimensions

Product Net Width	30 mm
Product Net Weight	0.070 kg

## Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	95 mm
Package Level 1 Height	95 mm
Package Level 1 Depth / Length	32 mm
Package Level 1 Gross Weight	0.07 kg
Package Level 1 EAN	3471522000552
Package Level 2 Units	10 piece

## Environmental

Ambient Air Temperature	Storage -30 ... +80 °C Operation -25 ... +70 °C
Resistance to Vibrations acc. to IEC 60068-2-6	25g (10 to 500 Hz) no change in position of contacts greater than 100 µs
Resistance to Shock acc. to IEC 60068-2-27	Half-sine Pulse for 11 ms, No Change in Contact Position 50 m/s <sup>2</sup>

## Technical UL/CSA

Pilot Duty of Contact Elements acc. UL508	A600 Q600
Flammability According to UL94	V0

## Additional Information

Action Type of the Contact Element (acc. to IEC 60947-snap action contacts 5-1)	
Actuator Type	plastic roller lever on steel plunger
Actuating Force	Minimum Force acc. to IEC 60947-5-1 7 N
Actuation Speed	acc. to IEC 60947-5-1 Max. 1.00 m/s acc. to IEC 60947-5-1 Min. 0.00 m/s
Angular Head Adjustment	adjustable head every 90°
Angular Lever Adjustment	none
Climatic Withstand	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
Conventional Free-air Thermal Current ( $I_{th}$ )	acc. to IEC 60947-5-1, $q = 40\text{ °C}$ 10.0 A
Connecting Capacity	AWG 20 ... AWG 14 0.5 ... 2.5 mm <sup>2</sup>
Consistency (Measured over 1 Million Operations)	0.1 mm
Contact Element Form (acc. to IEC 60947-5-1)	Zb
Connecting terminals (delivered in open position)	M3.5 (+,-) pozidriv 2 screw with cable clamp
Degree of Protection	acc. to IEC 60529 IP65
Electrical Shock Protection acc. to IEC 536	Double insulation - Class II
Maximum Electrical Switching Frequency	3600 cycles per hour
Mounting by Screws (not supplied)	2 x M4 screws
Mounting Position	all positions are authorised
Movement to be Detected	30° Unidirectional Cam Translation Movement
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number and Type of Bottom Cable Glands	Pg 11 Cable Gland
Operating Head Shape	E shape acc. EN 50047
Order Multiple	1 piece
Positive Opening Operation Force (Direct Opening Action)	Minimum Force acc. to IEC 60947-5-1 24 N
Positive Opening Operation of NC Contact(s)	Yes
Product Main Type	LS30
Product Name	Limit Switch
Rated Frequency (f)	Supply Circuit 50 Hz Supply Circuit 60 Hz
Rated Impulse Withstand Voltage ( $U_{imp}$ )	6 kV
Rated Insulation Voltage ( $U_i$ )	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
Rated Operational Current AC-15 ( $I_{\theta}$ )	(130 V) 5.5 A (230 V) 3.1 A (240 V) 3 A (24 V) 10 A (400 V) 1.8 A
Rated Operational Current DC-13 ( $I_{\theta}$ )	(110 V) 0.6 / 66 A (24 V) 2.8 / 67.2 A (250 V) 0.27 / 67.5 A
Resistance Between Contacts	25 mΩ
Standards	IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL 508 and CSA C22-2 N°14
Terminal Marking	according to EN 50013

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## Certificates and Declarations (Document Number)

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Data Sheet, Technical Information	1SBC001699R1002
Declaration of Conformity - CE	1SBD250881C2000
Environmental Information	1SBD250084E1000
Instructions and Manuals	1SBC001699R1002

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## Classifications

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ETIM 4	EC001829 - Position switch modular
ETIM 5	EC001829 - Position switch modular
ETIM 6	EC001829 - Position switch modular
UNSPSC	39121500

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## Categories

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Low Voltage Products and Systems → Control Products → Sensors → Limit Switches

