

# LS31P51B11



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

## General Information

<b>Extended Product Type:</b>	LS31P51B11
<b>Product ID:</b>	1SBV010151R1211
<b>EAN:</b>	3471522000972
<b>Catalog Description:</b>	LS31P51B11 Limit Switch
<b>Long Description:</b>	LS31P51B11 Limit Switch

## Ordering

<b>EAN:</b>	3471522000972
<b>Minimum Order Quantity:</b>	10 piece
<b>Customs Tariff Number:</b>	85364900

## Dimensions

<b>Product Net Width:</b>	30 mm
<b>Product Net Weight:</b>	0.100 kg

## Container Information

<b>Package Level 1 Units:</b>	1 piece
<b>Package Level 1 Width:</b>	118 mm
<b>Package Level 1 Height:</b>	54 mm
<b>Package Level 1 Depth / Length:</b>	32 mm
<b>Package Level 1 Gross Weight:</b>	0.1 kg
<b>Package Level 1 EAN:</b>	3471522000972
<b>Package Level 2 Units:</b>	10 piece
<b>Package Level 2 Gross Weight:</b>	1 kg

## Environmental

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

## Technical UL/CSA

<b>Pilot Duty of Contact Elements acc. UL508:</b>	A600 Q600
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Flammability According to UL94: V0

## Additional Information

<b>Action Type of the Contact Element (acc. to IEC 60947-5-1):</b>	snap action contacts
<b>Actuator Type:</b>	adjustable Ø 18 mm polyamide roller lever
<b>Actuation Speed:</b>	acc. to IEC 60947-5-1 Max. 1.50 m/s acc. to IEC 60947-5-1 Min. 0.00 m/s
<b>Actuation Torque:</b>	acc. to IEC 60947-5-1 Min. 0.10 N·m
<b>Angular Head Adjustment:</b>	adjustable head every 90°
<b>Angular Lever Adjustment:</b>	10° in 10°
<b>Climatic Withstand:</b>	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
<b>Conventional Free-air Thermal Current (I<sub>th</sub>):</b>	acc. to IEC 60947-5-1, q = 40 °C 10.0 A
<b>Connecting Capacity:</b>	AWG 20 ... AWG 14 0.5 ... 2.5 mm <sup>2</sup>
<b>Consistency (Measured over 1 Million Operations):</b>	0.1 mm
<b>Contact Element Form (acc. to IEC 60947-5-1):</b>	Zb
<b>Connecting terminals (delivered in open position):</b>	M3.5 (+,-) pozidriv 2 screw with cable clamp
<b>Degree of Protection:</b>	acc. to IEC 60529 IP65
<b>Electrical Shock Protection acc. to IEC 536:</b>	Double insulation - Class II
<b>Maximum Electrical Switching Frequency:</b>	3600 cycles per hour
<b>Mounting by Screws (not supplied):</b>	2 x M4 screws
<b>Mounting Position:</b>	all positions are authorised
<b>Movement to be Detected:</b>	30° Cam Translation Movement
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Number and Type of Bottom Cable Glands:</b>	Pg 11 Cable Gland
<b>Order Multiple:</b>	1 piece
<b>Positive Opening Operation of NC Contact(s):</b>	No
<b>Product Main Type:</b>	LS30
<b>Product Name:</b>	Limit Switch

<b>Rated Frequency (f):</b>	Supply Circuit 50 Hz Supply Circuit 60 Hz
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	6 kV
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V acc. to UL/CSA 600 V
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(130 V) 5.5 A (230 V) 3.1 A (240 V) 3 A (24 V) 10 A (400 V) 1.8 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(110 V) 0.6 / 66 A (24 V) 2.8 / 67.2 A (250 V) 0.27 / 67.5 A
<b>Resistance Between Contacts:</b>	25 mΩ
<b>Standards:</b>	IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL 508 and CSA C22-2 N°14
<b>Terminal Marking:</b>	according to EN 50013

### Certificates and Declarations (Document Number)

<b>Data Sheet, Technical Information:</b>	1SBC001699R1002
<b>Declaration of Conformity - CE:</b>	1SBD250881C2000
<b>Environmental Information:</b>	1SBD250085E1000
<b>Instructions and Manuals:</b>	1SBC001699R1002

### Classifications

<b>ETIM 4:</b>	EC001829 - Position switch modular
<b>ETIM 5:</b>	EC001829 - Position switch modular
<b>ETIM 6:</b>	EC001829 - Position switch modular
<b>UNSPSC:</b>	39121500

