



PRODUCT-DETAILS

LS31P91B11

LS31P91B11 Limit Switch



General Information	
Extended Product Type	LS31P91B11
Product ID	1SBV010191R1211
EAN	3471522001214
Catalog Description	LS31P91B11 Limit Switch
Long Description	LS31P91B11 is a 30 mm wide, standard Limit Switch made of fiber-glass reinforced UL-V0 material, with 2 mounting holes at the top, 1 Pg11 cable entry on the bottom, multidirectional stainless steel spring actuator with rigid end and 1 N.O + 1 N.C snap action (Zb type) contacts

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads	
Data Sheet, Technical Information	1SBC141157C0202

Dimensions

Product Net Width	30 mm
Product Net Height	188 mm
Product Net Depth / Length	30 mm
Product Net Weight	0.068 kg

Technical

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Snap action contacts
Actuation Speed	acc. to IEC 60947-5-1 Max. 1 m/s acc. to IEC 60947-5-1 Min. 0 m/s
Actuation Torque	acc. to IEC 60947-5-1 Min. 0.12 N·m
Actuator Type	spring rod
Angular Head Adjustment	adjustable head every 90°
Angular Lever Adjustment	none
B10d Value	Operations 30 Millions
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, $\Theta = 40\text{ °C}$ 10 A
Connecting Capacity	Bar AWG 20 ... AWG 14 mm ² Bar 0.5 ... 2.5 mm ²
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
Flammability According to UL94	V-0
Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Mechanical Durability	0 cycle
Mounting by Screws (not supplied)	2 x M4 screws
Movement to be Detected	Multidirectional 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
Pilot Duty UL/CSA	A600

	Q600
Positive Opening Operation of NC Contact (s)	No
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Operational Current AC-15 (I _e)	(230 V AC) 3.1 A (400 V) NC 4 (24 V) 10 A (130 V) 5.5 A (240 V) 3 A
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 500 V acc. to UL/CSA 600 V
Rated Operational Current DC-13 (I _e)	(24 V) 6 A (110 V) 0.6 A (125 V) 0.55 A (250 V) 0.4 A
Resistance Between Contacts	25 E45
Short-Circuit Protective Devices	gG Type Fuses 10 A
Terminal Marking	according to EN 50013

Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -30 ... +80 °C
Resistance to Shock acc. to IEC 60068-2-27	Half-sine Pulse for 11 ms, No Change in Contact Position 50 m/s ²
Resistance to Vibrations	No Change in Position of Contacts Greater than 100 µs: 25g 10 ... 500 Hz

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SBD251097E1000
RoHS Information	1SBD251097E1000
RoHS Status	Following EU Directive 2011/65/EU
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Declaration of Conformity - UKCA	1SBD250886U1000

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	35 mm
Package Level 1 Depth / Length	32 mm
Package Level 1 Height	202 mm
Package Level 1 Gross Weight	0.086 kg
Package Level 1 EAN	3471522001214

Classifications

ETIM 6	EC000030 - End switch
ETIM 7	EC000030 - End switch
ETIM 8	EC000030 - End switch
eClass	V11.1 : 27270601
UNSPSC	39121500

Categories

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

