

PRODUCT-DETAILS

LS45P91B11

LS45P91B11 Limit Switch



General Information

Extended Product Type	LS45P91B11
Product ID	1SBV012491R1211
EAN	3471522612410
Catalog Description	LS45P91B11 Limit Switch
Long Description	LS45P91B11 is a 40 mm wide, standard reinforced Limit Switch made of fiber-glass reinforced UL-V0 material, with 4 mounting holes at the top and bottom, 1 1/2" NPT 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

EAN	3471522612410
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Dimensions

Product Net Width	41 mm
Product Net Height	195 mm
Product Net Depth / Length	41 mm
Product Net Weight	0.129 kg

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	45 mm
Package Level 1 Height	200 mm
Package Level 1 Depth / Length	70 mm
Package Level 1 Gross Weight	0.156 kg
Package Level 1 EAN	3471522612410
Package Level 2 Units	1 piece
Package Level 2 Gross Weight	0.135 kg

Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -30 ... +80 °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 ²
RoHS Status	Following EU Directive 2011/65/EU

Technical UL/CSA

Pilot Duty of Contact Elements acc. UL508	A600 Q600
Flammability According to UL94	V-0

Safety Information

B10d Value	50 Millions operations
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Additional Information

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Snap action contacts
Actuator Type	stainless steel spring rod
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. 0.18 N-m
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 °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	M3.5 (+,-) pozidriv 2 screw with cable clamp

position)

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 (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Mechanical Durability	0 cycle
Mounting by Screws (not supplied)	2 or 4 x M5 screws
Mounting Position	all positions are authorised
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	1/2 NPT cable gland
Order Multiple	1 piece
Positive Opening Operation of NC Contact (s)	No
Product Main Type	LS40
Product Name	Limit Switch
Rated Frequency (f)	Supply Circuit 50 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) 500 V acc. to UL/CSA 600 V
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 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
RoHS Date	20171115
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

Certificates and Declarations (Document Number)

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Data Sheet, Technical Information	1SBC141157C0202
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Environmental Information	1SBD250097E1000
Instructions and Manuals	1SBC141157C0202
RoHS Information	1SBD250883U1000

Classifications		
ETIM 4	EC001829 - Position switch modular	
ETIM 5	EC001829 - Position switch modular	
ETIM 6	EC000030 - End switch	
ETIM 7	EC000030 - End switch	
UNSPSC	39121500	
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)	

Categories

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

