

PRODUCT-DETAILS

LS45P31L20

LS45P31L20 Limit Switch



General Information

Extended Product Type	LS45P31L20
Product ID	1SBV012431R1320
EAN	3471522611536
Catalog Description	LS45P31L20 Limit Switch
Long Description	LS45P31L20 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, plastic roller lever (Ø22 mm) on steel plunger actuator for horizontal movement and 2 N.O slow action, simultaneous contacts

Ordering

EAN	3471522611536
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Dimensions

Product Net Width	47 mm
Product Net Height	121 mm
Product Net Depth / Length	41 mm
Product Net Weight	0.137 kg

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	45 mm
Package Level 1 Height	130 mm
Package Level 1 Depth / Length	47 mm
Package Level 1 Gross Weight	0.155 kg
Package Level 1 EAN	3471522611536
Package Level 2 Units	1 piece
Package Level 2 Gross Weight	0.175 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

Additional Information

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Simultaneous slow action contacts
Actuator Type	Ø 22 mm polyamide roller lever on stainless steel plunger
Actuating Force	Minimum Force acc. to IEC 60947-5-1 12 N
Actuation Speed	acc. to IEC 60947-5-1 Max. 1 m/s acc. to IEC 60947-5-1 Min. 0.06 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 °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

Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Mechanical Durability	15 million
Mounting by Screws (not supplied)	2 or 4 x M5 screws
Mounting Position	all positions are authorised
Movement to be Detected	30° Unidirectional Cam Translation Movement
Number of Auxiliary Contacts NO	2
Number and Type of Bottom Cable Glands	1/2 NPT cable gland
Order Multiple	1 piece
Positive Opening Operation Force (Direct Opening Action)	Minimum Force acc. to IEC 60947-5-1 40 NEW
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	AC1300
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Environmental Information	1SBD250096E1000
Instructions and Manuals	AC1300
RoHS Information	1SBD250883U1000

Classifications

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

