

PRODUCT-DETAILS

LS31P30B02

LS31P30B02 Limit Switch



General Information

Extended Product Type	LS31P30B02
Product ID	1SBV010130R1202
EAN	3471522000507
Catalog Description	LS31P30B02 Limit Switch
Long Description	LS31P30B02 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, plastic roller lever (Ø12,5 mm) on plastic plunger actuator for horizontal movement and 2 N.C snap action (Zb type) contacts

Ordering

Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC141157C0202
Instructions and Manuals	1SBC141157C0202

Dimensions

Product Net Width	30 mm
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Product Net Height	92 mm
Product Net Depth / Length	30 mm
Product Net Weight	0.064 kg

Technical

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Snap action contacts
Actuating Force	Minimum Force acc. to IEC 60947-5-1 7 N
Actuation Speed	acc. to IEC 60947-5-1 Max. 1 m/s acc. to IEC 60947-5-1 Min. 0 m/s
Actuator Type	plastic roller lever on plastic plunger
Angular Head Adjustment	adjustable head every 90°
Angular Lever Adjustment	none
B10d Value	30 Millions operations
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, $q = 40\text{ °C } 10\text{ A}$
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	30° Unidirectional Cam Translation Movement
Number of Auxiliary Contacts NC	2
Number and Type of Bottom Cable Glands	Pg 11 cable gland
Operating Head Shape	E shape acc. EN 50047
Pilot Duty of Contact Elements acc. UL508	A600 Q600
Positive Opening Operation Force (Direct Opening Action)	Minimum Force acc. to IEC 60947-5-1 24 NEW
Positive Opening Operation of NC Contact (s)	Yes
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 acc. to IEC 60068-2-6	25g (10 to 500 Hz) no change in position of contacts greater than 100 µs
RoHS Status	Following EU Directive 2011/65/EU

Certificates and Declarations (Document Number)

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Declaration of Conformity - UKCA	1SBD250886U1000
Environmental Information	1SBD250085E1000
Instructions and Manuals	1SBC141157C0202
RoHS Information	1SBD251097E1000

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	95 mm
Package Level 1 Gross Weight	0.074 kg
Package Level 1 EAN	3471522000507

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

Categories

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

