

PRODUCT-DETAILS

LS31P13L20

LS31P13L20 Limit Switch



General Information

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|-----------------------|---|
| Extended Product Type | LS31P13L20 |
| Product ID | 1SBV010113R1320 |
| EAN | 3471522000156 |
| Catalog Description | LS31P13L20 Limit Switch |
| Long Description | LS31P13L20 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 plunger actuator and 2 N.O slow action, simultaneous contacts |

Ordering

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|------------------------|---------------|
| EAN | 3471522000156 |
| Minimum Order Quantity | 10 piece |
| Customs Tariff Number | 85364900 |

Dimensions

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| Product Net Width | 30 mm |
| Product Net Height | 84 mm |
| Product Net Depth / Length | 30 mm |
| Product Net Weight | 0.064 kg |

Container Information

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|--------------------------------|---------------|
| Package Level 1 Units | box 1 piece |
| Package Level 1 Width | 35 mm |
| Package Level 1 Height | 95 mm |
| Package Level 1 Depth / Length | 32 mm |
| Package Level 1 Gross Weight | 0.074 kg |
| Package Level 1 EAN | 3471522000156 |
| Package Level 2 Units | 5 piece |
| Package Level 2 Gross Weight | 0.35 kg |

Environmental

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| 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

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

Safety Information

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|------------|------------------------|
| B10d Value | 30 Millions operations |
|------------|------------------------|

Additional Information

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| Action Type of the Contact Element (acc. to IEC 60947-5-1) | Simultaneous slow action contacts |
| Actuator Type | plastic roller plunger |
| Actuating Force | Minimum Force acc. to IEC 60947-5-1 12 N |
| Actuation Speed | acc. to IEC 60947-5-1 Max. 0.3 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 |

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| 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 x M4 screws |
| Mounting Position | all positions are authorised |
| Movement to be Detected | On end or 30° Cam Translation |
| Number of Auxiliary Contacts NO | 2 |
| Number and Type of Bottom Cable Glands | Pg 11 cable gland |
| Operating Head Shape | C shape acc. EN 50047 |
| Order Multiple | 1 piece |
| Positive Opening Operation Force (Direct Opening Action) | Minimum Force acc. to IEC 60947-5-1 41 NEW |
| Positive Opening Operation of NC Contact (s) | No |
| Product Main Type | LS30 |
| 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)

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|-----------------------------------|---------------------|
| CQC Certificate | CQC2004010305127663 |
| cUL Certificate | 9AKK107991A7379 |
| Data Sheet, Technical Information | 1SBC141157C0202 |
| Declaration of Conformity - CCC | 2020980305001785 |
| Declaration of Conformity - CE | 1SBD250883U1000 |
| Environmental Information | 1SBD250084E1000 |
| Instructions and Manuals | 1SBC141157C0202 |
| RoHS Information | 1SBD250883U1000 |

Classifications

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|---------------|--|
| 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

