



**Electric Automation**  
Automation specialists

Reference: LS35P31B02-R  
Code: 1SBV022131R1202

LS35P31B02-R Limit Switch

Buy it at Electric Automation Network



LS35P31B02-R Limit Switch

## Ordering

|                         |               |
|-------------------------|---------------|
| EAN:                    | 3471522620569 |
| Minimum Order Quantity: | 10 piece      |
| Customs Tariff Number:  | 85369085      |

## Dimensions

|                     |          |
|---------------------|----------|
| Product Net Width:  | 30 mm    |
| Product Net Weight: | 0.102 kg |

## Container Information

|                        |               |
|------------------------|---------------|
| Package Level 1 Units: | 1 piece       |
| Package Level 1 EAN:   | 3471522620569 |

## Environmental

|   |   |
|---|---|
| Ambient Air Temperature:                        | Operation -25 ... +70 °C<br>Storage -30 ... +80 °C                              |
| Resistance to Shock acc. to IEC 60068-2-27:     | Half-sine Pulse for 11 ms, No Change in Contact Position<br>50 m/s <sup>2</sup> |
| Resistance to Vibrations acc. to IEC 60068-2-6: | 25g (10 to 500 Hz) no change in position of contacts<br>greater than 100 µs     |

## Technical UL/CSA

|  |              |
|--|--------------|
| Pilot Duty of Contact Elements acc. UL508: | A600<br>Q600 |
| Flammability According to UL94:            | V0           |

## Additional Information

|   |  |
|---|--|
| 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 60947-5-1Max. 1.00 m/s<br>acc. to IEC 60947-5-1Min. 0.00 m/s |
| Actuator Type:  | plastic roller lever on galvanized steel plunger                         |
| Angular Head Adjustment:                                    | adjustable head every 90°  |
| Climatic Withstand:   | according to IEC 68-2-3 and salty mist according to IEC 68-2-11          |
| Connecting Capacity:  | AWG 20 ... AWG 14<br>0.5 ... 2.5 mm <sup>2</sup>                         |
| Connecting terminals (delivered in open position):          | M3.5 (+,-) pozidriv 2 screw with cable clamp                             |
| Consistency (Measured over 1 Million Operations):           | 0.1 mm   |
| Contact Element Form (acc. to IEC 60947-5-1):               | Zb   |
| Conventional Free-air Thermal Current (I <sub>th</sub> ):   | acc. to IEC 60947-5-1, q = 40 °C 10.0 A                                  |
| Degree of Protection:                                       | acc. to IEC 60529 IP65   |
| Electrical Shock Protection acc. to IEC 536:                | Double insulation - Class II   |
| IIT Publishing Status:                                      | Level 0 - Information enabled  |
| Load Factor:  | .5   |
| Maximum Electrical Switching Frequency:                     | 3600 cycles per hour   |
| Maximum Mechanical Switching Frequency:                     | 600 cycles per hour  |
| Mounting by Screws (not supplied):                          | 2 x M4 screws  |
| Mounting Position:  | all positions are authorised   |
| Movement to be Detected:                                    | 30° Unidirectional Cam Translation Movement                              |
| Number and Type of Bottom Cable Glands:                     | 1/2 NPT plastic adaptor  |
| Number of Auxiliary Contacts NC:                            | 2  |
| Positive Opening Operation Force (Direct Opening Action):   | Minimum Force acc. to IEC 60947-5-1 24 N                                 |
| Positive Opening Operation of NC Contact(s):                | Yes  |
| Product Main Type:  | LS30   |
| Product Name:   | Limit Switch   |
| Rated Frequency (f):  | Supply Circuit 50 Hz<br>Supply Circuit 60 Hz                             |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ):        | 6 kV   |

|  |   |
|--|---|
| Rated Insulation Voltage (U <sub>i</sub> ):        | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 V            |
| Rated Operational Current AC-15 (I <sub>e</sub> ): | (130 V) 5.5 A<br>(230 V) 3.1 A<br>(240 V) 3 A<br>(24 V) 10 A<br>(400 V) 1.8 A       |
| Rated Operational Current DC-13 (I <sub>e</sub> ): | (110 V) 0.6 / 66 A<br>(24 V) 2.8 / 67.2 A<br>(250 V) 0.27 / 67.5 A                  |
| Resistance Between Contacts:                       | 25 mΩ   |
| Standards:   | IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1,<br>UL 508, and CSA C22-2 N°14 |
| Terminal Marking:                                  | according to EN 50013   |

### Certificates and Declarations (Document Number)

|                                    |                 |
|------------------------------------|-----------------|
| Data Sheet, Technical Information: | 1SBC141107C0201 |
| Declaration of Conformity - CE:    | 1SBD250881C2000 |

### Classifications

|         |                                    |
|---------|------------------------------------|
| ETIM 4: | EC001829 - Position switch modular |
| ETIM 5: | EC001829 - Position switch modular |