



**Automatización Eléctrica**

Especialistas en Automatización

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## General Information

|                        |                         |
|------------------------|-------------------------|
| Extended Product Type: | LS40P31B11              |
| Product ID:            | 1SBV010531R1211         |
| EAN:                   | 3471522001511           |
| Catalog Description:   | LS40P31B11 Limit Switch |
| Long Description:      | LS40P31B11 Limit Switch |

## Categories

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

## Ordering

|                         |               |
|-------------------------|---------------|
| EAN:                    | 3471522001511 |
| Minimum Order Quantity: | 10 piece      |
| Customs Tariff Number:  | 85369085      |

## Dimensions

|                     |          |
|---------------------|----------|
| Product Net Width:  | 40 mm    |
| Product Net Weight: | 0.175 kg |

## Container Information

|                               |               |
|-------------------------------|---------------|
| Package Level 1 Units:        | 1 piece       |
| Package Level 1 Width:        | 120 mm        |
| Package Level 1 Height:       | 45 mm         |
| Package Level 1 Length:       | 45 mm         |
| Package Level 1 Gross Weight: | 0.175 kg      |
| Package Level 1 EAN:          | 3471522001511 |

## 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 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 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 12 N                                   |
| Actuation Speed:  | acc. to IEC 60947-5-1 Max. 1.00 m/s<br>acc. to IEC 60947-5-1 Min. 0.00 m/s |
| Actuator Type:  | Ø 22 mm polyamide roller lever on stainless steel plunger                  |
| 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            |
| 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   |

|  |   |
|--|---|
| <b>IIT Publishing Status:</b>                                    | Level 0 - Information enabled   |
| <b>Load Factor:</b>  | .5  |
| <b>Maximum Electrical Switching Frequency:</b>                   | 3600 cycles per hour  |
| <b>Mounting by Screws (not supplied):</b>                        | 2 or 4 x M5 screws  |
| <b>Mounting Position:</b>  | all positions are authorised  |
| <b>Movement to be Detected:</b>                                  | 30° Unidirectional Cam Translation Movement                                     |
| <b>Number and Type of Bottom Cable Glands:</b>                   | Pg 13,5 Cable Gland   |
| <b>Number of Auxiliary Contacts NC:</b>                          | 1   |
| <b>Number of Auxiliary Contacts NO:</b>                          | 1   |
| <b>Positive Opening Operation Force (Direct Opening Action):</b> | Minimum Force acc. to IEC 60947-5-1 40 N  |
| <b>Positive Opening Operation of NC Contact(s):</b>              | Yes   |
| <b>Product Main Type:</b>  | LS40  |
| <b>Product Name:</b>   | Limit Switch  |
| <b>Rated Frequency (f):</b>                                      | Supply Circuit 50 Hz<br>Supply Circuit 60 Hz                                    |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>        | 6 kV  |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>                 | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V<br>acc. to UL/CSA 600 V        |
| <b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>          | (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   |
| <b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>          | (110 V) 0.6 / 66 A<br>(24 V) 2.8 / 67.2 A<br>(250 V) 0.27 / 67.5 A              |
| <b>Resistance Between Contacts:</b>                              | 25 mΩ   |
| <b>Standards:</b>  | IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL 508 and CSA C22-2 N°14 |
| <b>Terminal Marking:</b>   | according to EN 50013   |

### Certificates and Declarations (Document Number)

|   |                 |
|---|-----------------|
| <b>Data Sheet, Technical Information:</b> | 1SBC001699R1002 |
| <b>Declaration of Conformity - CE:</b>    | 1SBD250881C2000 |

### Classifications

|                |                                    |
|----------------|------------------------------------|
| <b>ETIM 4:</b> | EC001829 - Position switch modular |
| <b>ETIM 5:</b> | EC001829 - Position switch modular |
| <b>UNSPSC:</b> | 39121500                           |





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| Product                 | Code            | Reference  | Product link               |
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