



Automatización Eléctrica

Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#)

General Information

| | |
|------------------------|-------------------------|
| Extended Product Type: | LS45M31L20 |
| Product ID: | 1SBV013131R1320 |
| EAN: | 3471522613332 |
| Catalog Description: | LS45M31L20 Limit Switch |
| Long Description: | LS45M31L20 Limit Switch |

Categories

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

Ordering

| | |
|-------------------------|---------------|
| EAN: | 3471522613332 |
| Minimum Order Quantity: | 5 piece |
| Customs Tariff Number: | 85369085 |

Dimensions

| | |
|---------------------|----------|
| Product Net Width: | 40 mm |
| Product Net Weight: | 0.275 kg |

Container Information

| | |
|-------------------------------|---------------|
| Package Level 1 Units: | 1 piece |
| Package Level 1 Width: | 140 mm |
| Package Level 1 Height: | 70 mm |
| Package Level 1 Length: | 45 mm |
| Package Level 1 Gross Weight: | 0.275 kg |
| Package Level 1 EAN: | 3471522613332 |

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 |

Technical UL/CSA

| | |
|--|--------------|
| Pilot Duty of Contact Elements acc. UL508: | A600 Q600 |
|--|--------------|

Additional Information

| | |
|---|--|
| Action Type of the Contact Element (acc. to IEC 60947-5-1): | Simultaneous slow action contacts |
| Actuating Force: | Minimum Force acc. to IEC 60947-5-1 12 N |
| Actuation Speed: | acc. to IEC 60947-5-1 Max. 1.50 m/s acc. to IEC 60947-5-1 Min. 0.06 m/s |
| Actuator Type: | Ø22 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 0.5 ... 2.5 mm ² |
| Connecting terminals (delivered in open position): | M3.5 (+,-) pozidriv 2 screw with cable clamp |
| Consistency (Measured over 1 Million Operations): | 0.05 mm |
| Contact Element Form (acc. to IEC 60947-5-1): | Zb |
| Conventional Free-air Thermal Current (I _{th}): | acc. to IEC 60947-5-1, q = 40 °C 10.0 A |
| Degree of Protection: | acc. to IEC 60529 IP66 |
| Electrical Shock Protection acc. to IEC 536: | Class I |
| IIT Publishing Status: | Level 0 - Information enabled |

| | |
|--|---|
| Load Factor: | .5 |
| Maximum Electrical Switching Frequency: | 3600 cycles per hour |
| Mechanical Durability: | 30 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 and Type of Bottom Cable Glands: | 1/2 NPT cable gland |
| Number of Auxiliary Contacts NO: | 2 |
| Positive Opening Operation Force (Direct Opening Action): | Minimum Force acc. to IEC 60947-5-1 40 N |
| Positive Opening Operation of NC Contact(s): | No |
| Product Main Type: | LS40 |
| Product Name: | Limit Switch |
| Rated Frequency (f): | Supply Circuit 50 Hz Supply Circuit 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) 690 V acc. to UL/CSA 600 V |
| Rated Operational Current AC-15 (I_e): | (130 V) 5.5 A (230 V) 3.1 A (240 V) 3 A (24 V) 10 A (400 V) 1.8 A |
| Rated Operational Current DC-13 (I_e): | (110 V) 0.6 / 66 A (24 V) 2.8 / 67.2 A (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, UL 508 and CSA C22-2 N°14 |
| Terminal for Protective Conductor: | M 3.5 (+, -) pozidriv 2 screw with cable clamp |
| Terminal Marking: | according to EN 50013 |

Certificates and Declarations (Document Number)

| | |
|---|-----------------|
| Data Sheet, Technical Information: | AC1300 |
| Declaration of Conformity - CE: | 1SBD250881C2000 |

Classifications

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





Automatización Eléctrica
Especialistas en Automatización

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

| Product | Code | Reference | Product link |
|-------------------------|-----------------|------------|----------------------------|
| LS45M31L20 Limit Switch | 1SBV013131R1320 | LS45M31L20 | Buy on EAN |