



**Electric Automation**  
Automation specialists

Reference: LS45M21B02  
Code: 1SBV013121R1202

LS45M21B02 Limit Switch

Buy it at Electric Automation Network



LS45M21B02 Limit Switch

## Ordering

|                         |               |
|-------------------------|---------------|
| EAN:                    | 3471522612960 |
| Minimum Order Quantity: | 5 piece       |
| Customs Tariff Number:  | 85369085      |

## Dimensions

|                     |          |
|---------------------|----------|
| Product Net Width:  | 40 mm    |
| Product Net Weight: | 0.260 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: | 0.26 kg       |
| Package Level 1 EAN:          | 3471522612960 |

## 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 |
|--|--------------|

## 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 30 N                                 |
| Actuation Speed:  | acc. to IEC 60947-5-1Max. 0.50 m/s<br>acc. to IEC 60947-5-1Min. 0.00 m/s |
| Actuator Type:  | stainless steel lateral plain 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):           | 0.05 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 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:                                    | on end   |
| Number and Type of Bottom Cable Glands:                     | 1/2 NPT cable gland  |
| Number of Auxiliary Contacts NC:                            | 2  |
| Operating Head Shape:                                       | F shape acc. EN 50041  |
| Positive Opening Operation Force (Direct Opening Action):   | Minimum Force acc. to IEC 60947-5-1 70 N                                 |
| Positive Opening Operation of NC Contact(s):                | Yes  |

|  |  |
|--|--|
| Product Main Type:                                   | LS40   |
| 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 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 |