

## PRODUCT-DETAILS

# LS35P51L20

## LS35P51L20 Limit Switch



### General Information

|                       |                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | LS35P51L20                                                                                                                                                                                                                                                              |
| Product ID            | 1SBV012151R1320                                                                                                                                                                                                                                                         |
| EAN                   | 3471522610997                                                                                                                                                                                                                                                           |
| Catalog Description   | LS35P51L20 Limit Switch                                                                                                                                                                                                                                                 |
| Long Description      | LS35P51L20 is a 30 mm wide, standard Limit Switch made of fiber-glass reinforced UL-V0 material, with 2 mounting holes at the top, 1 1/2" NPT cable entry on the bottom, adjustable plastic roller lever (Ø18 mm) actuator and 2 N.O slow action, simultaneous contacts |

### Ordering

|                        |               |
|------------------------|---------------|
| EAN                    | 3471522610997 |
| Minimum Order Quantity | 10 piece      |
| Customs Tariff Number  | 85364900      |

### Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 30 mm    |
| Product Net Height         | 98.5 mm  |
| Product Net Depth / Length | 45.5 mm  |
| Product Net Weight         | 0.092 kg |

## Container Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Units          | box 1 piece   |
| Package Level 1 Width          | 54 mm         |
| Package Level 1 Height         | 118 mm        |
| Package Level 1 Depth / Length | 32 mm         |
| Package Level 1 Gross Weight   | 0.106 kg      |
| Package Level 1 EAN            | 3471522610997 |
| Package Level 2 Units          | 5 piece       |
| Package Level 2 Gross Weight   | 0.525 kg      |

## Environmental

|                                                |                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +70 °C<br>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 <sup>2</sup> |
| RoHS Status                                    | Following EU Directive 2011/65/EU                                            |

## Technical UL/CSA

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

## Safety Information

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

## Additional Information

|                                                            |                                                                           |
|------------------------------------------------------------|---------------------------------------------------------------------------|
| Action Type of the Contact Element (acc. to IEC 60947-5-1) | Simultaneous slow action contacts                                         |
| Actuator Type                                              | adjustable Ø 18 mm polyamide roller lever                                 |
| Actuation Speed                                            | acc. to IEC 60947-5-1 Max. 1.5 m/s<br>acc. to IEC 60947-5-1 Min. 0.06 m/s |
| Actuation Torque                                           | acc. to IEC 60947-5-1 Min. 0.1 N·m                                        |
| Angular Head Adjustment                                    | adjustable head every 90°                                                 |
| Angular Lever Adjustment                                   | 10° in 10°                                                                |
| Climatic Withstand                                         | according to IEC 68-2-3 and salty mist according to IEC 68-2-11           |
| Conventional Free-air Thermal Current (I <sub>th</sub> )   | acc. to IEC 60947-5-1, q = 40 °C 10 A                                     |
| Connecting Capacity                                        | Bar AWG 20 ... AWG 14 mm <sup>2</sup><br>Bar 0.5 ... 2.5 mm <sup>2</sup>  |
| Consistency (Measured over 1 Million Operations)           | 0.1 mm                                                                    |
| Contact Element Form (acc. to IEC 60947-5-1)               | Zb                                                                        |
| Connecting Terminals (delivered in open                    | M3.5 (+,-) pozidriv 2 screw with cable clamp                              |

position)

|                                                     |                                                                                      |
|-----------------------------------------------------|--------------------------------------------------------------------------------------|
| 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<br>(AC-15) 3600 cycles per hour<br>(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                             | 30° Cam Translation Movement                                                         |
| Number of Auxiliary Contacts NO                     | 2                                                                                    |
| Number and Type of Bottom Cable Glands              | 1/2 NPT plastic adaptor                                                              |
| Order Multiple                                      | 1 piece                                                                              |
| 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 <sub>imp</sub> ) | 6 kV                                                                                 |
| Rated Insulation Voltage (U <sub>i</sub> )          | acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 500 V<br>acc. to UL/CSA 600 V             |
| Rated Operational Current AC-15 (I <sub>e</sub> )   | (230 V AC) 3.1 A<br>(400 V) NC 4<br>(24 V) 10 A<br>(130 V) 5.5 A<br>(240 V) 3 A      |
| Rated Operational Current DC-13 (I <sub>e</sub> )   | (24 V) 6 A<br>(110 V) 0.6 A<br>(125 V) 0.55 A<br>(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)

|                                   |                     |
|-----------------------------------|---------------------|
| CQC Certificate                   | CQC2004010305127663 |
| cUL Certificate                   | 9AKK107991A7379     |
| Data Sheet, Technical Information | 1SBC141157C0202     |
| Declaration of Conformity - CCC   | 2020980305001785    |
| Declaration of Conformity - CE    | 1SBD250883U1000     |
| Environmental Information         | 1SBD250091E1000     |
| Instructions and Manuals          | 1SBC141157C0202     |
| RoHS Information                  | 1SBD250883U1000     |

| Classifications |                                                            |
|-----------------|------------------------------------------------------------|
| 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

