



**Automatización Eléctrica**

Especialistas en Automatización

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## General Information

Extended Product Type:	LS45M13B11
Product ID:	1SBV013113R1211
EAN:	3471522612717
Catalog Description:	LS45M13B11 Limit Switch
Long Description:	LS45M13B11 Limit Switch

## Categories

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

## Ordering

EAN:	3471522612717
Minimum Order Quantity:	10 piece
Customs Tariff Number:	85369085

## Dimensions

Product Net Width:	40 mm
Product Net Weight:	0.240 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:	0.24 kg
Package Level 1 EAN:	3471522612717

## 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 <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 Q600
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## 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 16 N
Actuation Speed:	acc. to IEC 60947-5-1 Max. 0.50 m/s acc. to IEC 60947-5-1 Min. 0.00 m/s
Actuator Type:	stainless steel roller 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 <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

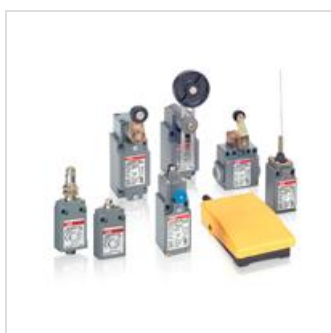
<b>Load Factor:</b>	.5
<b>Maximum Electrical Switching Frequency:</b>	3600 cycles per hour
<b>Mounting by Screws (not supplied):</b>	2 or 4 x M5 screws
<b>Mounting Position:</b>	all positions are authorised
<b>Movement to be Detected:</b>	On end or 30° Cam Translation
<b>Number and Type of Bottom Cable Glands:</b>	1/2 NPT cable gland
<b>Number of Auxiliary Contacts NC:</b>	1
<b>Number of Auxiliary Contacts NO:</b>	1
<b>Operating Head Shape:</b>	C shape acc. EN 50041
<b>Positive Opening Operation Force (Direct Opening Action):</b>	Minimum Force acc. to IEC 60947-5-1 48 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 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 acc. to UL/CSA 600 V
<b>Rated Operational Current AC-15 (I<sub>e</sub>):</b>	(130 V) 5.5 A (230 V) 3.1 A (240 V) 3 A (24 V) 10 A (400 V) 1.8 A
<b>Rated Operational Current DC-13 (I<sub>e</sub>):</b>	(110 V) 0.6 / 66 A (24 V) 2.8 / 67.2 A (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 for Protective Conductor:</b>	M 3.5 (+,-) pozidriv 2 screw with cable clamp
<b>Terminal Marking:</b>	according to EN 50013

### Certificates and Declarations (Document Number)

<b>Data Sheet, Technical Information:</b>	AC1300
<b>Declaration of Conformity - CE:</b>	1SBD250881C2000

### Classifications

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





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<b>Product</b>	<b>Code</b>	<b>Reference</b>	<b>Product link</b>
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