

PRODUCT-DETAILS

LS31P81C11-S

LS31P81C11-S Limit Switch



General Information

Extended Product Type	LS31P81C11-S
Product ID	1SBV030181R1511
EAN	3471522617101
Catalog Description	LS31P81C11-S Limit Switch
Long Description	LS31P81C11-S is a 30 mm wide, standard Safety Limit Switch made of fiber-glass reinforced UL-V0 material, with 2 mounting holes at the top, 1 Pg11 cable entry on the bottom, orientable (90°) for key actuator and 1 N.O + 1 N.C slow action (Zb type), overlapping (early closing) contacts

Ordering

EAN	3471522617101
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Dimensions

Product Net Width	30 mm
Product Net Height	100 mm
Product Net Depth / Length	36 mm
Product Net Weight	0.09 kg

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	118 mm
Package Level 1 Height	54 mm
Package Level 1 Depth / Length	32 mm
Package Level 1 Gross Weight	0.1 kg
Package Level 1 EAN	3471522617101
Package Level 2 Units	5 piece
Package Level 2 Gross Weight	0.45 kg

Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -30 ... +80 °C
Resistance to Vibrations acc. to IEC 60068-2-6	5g (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 10 m/s ²
RoHS Status	Following EU Directive 2011/65/EU

Technical UL/CSA

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

Safety Information

B10d Value	30 Millions operations
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Additional Information

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Overlapping slow action contacts
Actuator Type	not delivered - order small latch (key) separately
Actuation Speed	acc. to IEC 60947-5-1 Max. 0.5 m/s acc. to IEC 60947-5-1 Min. 0.01 m/s
Angular Head Adjustment	pivoting head continuous between 0° to 360°
Climatic Withstand	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, q = 40 °C 10 A
Connecting Capacity	Bar AWG 20 ... AWG 14 mm ² Bar 0.5 ... 2.5 mm ²
Consistency (Measured over 1 Million Operations)	0.1 mm
Contact Element Form (acc. to IEC 60947-5-1)	Zb
Connecting Terminals (delivered in open position)	M3.5 (+,-) pozidriv 2 screw with cable clamp
Degree of Protection	acc. to IEC 60529 IP65
Electrical Shock	Double insulation - Class II

Protection acc. to IEC 536	
Extraction Force	Minimum Force of the Key acc. to IEC 60947-5-1 10 NEW
Insertion Force	Minimum Force of the Key acc. to IEC 60947-5-1 15 NEW
Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Maximum Mechanical Switching Frequency	600 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	small latch (key), front or vertical translation
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number and Type of Bottom Cable Glands	Pg 11 cable gland
Order Multiple	1 piece
Positive Opening Operation Force (Direct Opening Action)	Minimum Force acc. to IEC 60947-5-1 30 NEW
Positive Opening Operation of NC Contact (s)	Yes
Product Main Type	LS30
Product Name	Limit Switch
Rated Frequency (f)	Supply Circuit 50 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) 500 V acc. to UL/CSA 600 V
Rated Operational Current AC-15 (I _e)	(230 V AC) 3.1 A (400 V) NC 4 (24 V) 10 A (130 V) 5.5 A (240 V) 3 A
Rated Operational Current DC-13 (I _e)	(24 V) 6 A (110 V) 0.6 A (125 V) 0.55 A (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, EN 1088, UL 508, and CSA C22-2 N°14, 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	1SBD250117E1000

Information	
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

