



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

Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	1SBC141157C0202
Instructions and Manuals	1SBC141157C0202

Dimensions

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

Technical

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Overlapping slow action contacts
Actuation Speed	acc. to IEC 60947-5-1 Max. 0.5 m/s acc. to IEC 60947-5-1 Min. 0.01 m/s
Actuator Type	not delivered - order small latch (key) separately
Angular Head Adjustment	pivoting head continuous between 0° to 360°
B10d Value	Operations 30 Millions
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, $\Theta = 40\text{ °C}$ 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 Protection acc. to IEC 536	Double insulation - Class II
Flammability According to UL94	V-0
Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Mechanical Durability	0 cycle
Mounting by Screws (not supplied)	2 x M4 screws
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
Pilot Duty UL/CSA	A600 Q600
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
Rated Impulse Withstand Voltage (U_{imp})	6 kV
Rated Operational Current AC-15 (I_a)	(230 V AC) 3.1 A (400 V) NC 4 (24 V) 10 A (130 V) 5.5 A (240 V) 3 A
Rated Frequency (f)	Supply Circuit 50 / 60 Hz

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 DC-13 (I _g)	(24 V) 6 A (110 V) 0.6 A (125 V) 0.55 A (250 V) 0.4 A
Resistance Between Contacts	25 E45
Short-Circuit Protective Devices	gG Type Fuses 10 A
Terminal Marking	according to EN 50013

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 10 m/s²
Resistance to Vibrations	No Change in Position of Contacts Greater than 100 µs: 5g 10 ... 500 Hz

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SBD251097E1000
RoHS Information	1SBD251097E1000
RoHS Status	Following EU Directive 2011/65/EU
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Declaration of Conformity - UKCA	1SBD250886U1000

Container Information

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

Classifications

ETIM 6	EC000030 - End switch
ETIM 7	EC000030 - End switch
ETIM 8	EC000030 - End switch
eClass	V11.1 : 27270601

UNSPSC 39121500

Categories

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

