

LS31P80D11-S



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

General Information

Extended Product Type:	LS31P80D11-S
Product ID:	1SBV030180R1411
EAN:	3471522617057
Catalog Description:	LS31P80D11-S Limit Switch
Long Description:	LS31P80D11-S Limit Switch

Ordering

EAN:	3471522617057
Minimum Order Quantity:	10 piece
Customs Tariff Number:	85364900

Dimensions

Product Net Width:	30 mm
Product Net Weight:	0.080 kg

Container Information

Package Level 1 Units:	1 piece
Package Level 1 Width:	95 mm
Package Level 1 Height:	35 mm
Package Level 1 Length:	32 mm
Package Level 1 Gross Weight:	0.08 kg
Package Level 1 EAN:	3471522617057
Package Level 2 Units:	10 piece
Package Level 2 Gross Weight:	0.8 kg

Environmental

Ambient Air Temperature:	Storage -30 ... +80 °C Operation -25 ... +70 °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

Technical UL/CSA

Pilot Duty of Contact Elements acc. UL508:	A600 Q600
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Flammability According to UL94: V0

Additional Information

Action Type of the Contact Element (acc. to IEC 60947-5-1):	Non-overlapping slow action contacts
Actuator Type:	not delivered - order small latch (key) separately
Actuation Speed:	acc. to IEC 60947-5-1 Max. 0.50 m/s acc. to IEC 60947-5-1 Min. 0.01 m/s
Angular Head Adjustment:	adjustable head every 90°
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, $q = 40\text{ °C}$ 10.0 A
Connecting Capacity:	AWG 20 ... AWG 14 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
Extraction Force:	Minimum Force of the Key acc. to IEC 60947-5-1 10 N
Insertion Force:	Minimum Force of the Key acc. to IEC 60947-5-1 15 N
Maximum Electrical Switching Frequency:	3600 cycles per hour
Maximum Mechanical Switching Frequency:	600 cycles per hour
Mechanical Durability:	> 1 million
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 N

Positive Opening Operation of NC Contact(s):	Yes
Product Main Type:	LS30
Product Name:	Limit Switch
Rated Frequency (f):	Supply Circuit 50 Hz Supply Circuit 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) 690 V acc. to UL/CSA 600 V
Rated Operational Current AC-15 (I_e):	(130 V) 5.5 A (230 V) 3.1 A (240 V) 3 A (24 V) 10 A (400 V) 1.8 A
Rated Operational Current DC-13 (I_e):	(110 V) 0.6 / 66 A (24 V) 2.8 / 67.2 A (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, EN 1088, UL 508, and CSA C22-2 N°14
Terminal Marking:	according to EN 50013

Certificates and Declarations (Document Number)

Data Sheet, Technical Information:	1SBC141107C0201
Declaration of Conformity - CE:	1SBD250884C1000
Environmental Information:	1SBD250117E1000
Instructions and Manuals:	1SBC141107C0201

Classifications

ETIM 4:	EC001829 - Position switch modular
ETIM 5:	EC001829 - Position switch modular
ETIM 6:	EC001829 - Position switch modular
UNSPSC:	39121500

