

PRODUCT-DETAILS

LS45M91D11

LS45M91D11 Limit Switch



General Information

Extended Product Type	LS45M91D11
Product ID	1SBV013191R1411
EAN	3471522614438
Catalog Description	LS45M91D11 Limit Switch
Long Description	LS45M91D11 is a 40 mm wide, standard reinforced Limit Switch made of zinc alloy material (Zamak), with 4 mounting holes at the top and bottom, 1 1/2" NPT cable entry on the bottom, multidirectional stainless steel spring actuator with rigid end and 1 N.O + 1 N.C slow action (Zb type), overlapping (late closing) contacts

Ordering

EAN	3471522614438
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Dimensions

Product Net Width	40 mm
Product Net Height	199 mm
Product Net Depth / Length	44 mm
Product Net Weight	0.206 kg

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	45 mm
Package Level 1 Height	200 mm
Package Level 1 Depth / Length	45 mm
Package Level 1 Gross Weight	0.229 kg
Package Level 1 EAN	3471522614438
Package Level 2 Units	1 piece
Package Level 2 Gross Weight	0.235 kg

Environmental

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

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)	Non-overlapping slow action contacts
Actuator Type	stainless steel spring rod
Actuation Speed	acc. to IEC 60947-5-1 Max. 1 m/s acc. to IEC 60947-5-1 Min. 0.06 m/s
Actuation Torque	acc. to IEC 60947-5-1 Min. 0.18 N·m
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
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)	0.05 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 IP66
Electrical Shock Protection acc. to IEC 536	Class I
Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour

	(DC-13) 3600 cycles per hour
Mechanical Durability	10 million
Mounting by Screws (not supplied)	2 or 4 x M5 screws
Mounting Position	all positions are authorised
Movement to be Detected	Multidirectional Translation Movement
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number and Type of Bottom Cable Glands	1/2 NPT cable gland
Order Multiple	1 piece
Positive Opening Operation of NC Contact (s)	No
Product Main Type	LS40
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, UL 508 and CSA C22 -2 N°14
Terminal Marking	according to EN 50013
Terminal for Protective Conductor	M 3.5 (+,-) pozidriv 2 screw with cable clamp

Certificates and Declarations (Document Number)

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Data Sheet, Technical Information	AC1300
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Environmental Information	1SBD250103E1000
Instructions and Manuals	AC1300
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

