

Position switches, 1N/C+1N/O, rounded plunger, Cold Climate -40°C

Powering Business Worldwide*

Part no. LS-S11D-CC Article no. 176891 Catalog No. LS-S11D-CC

Delivery program

Basic function Part group reference Part group reference Conduct travel Contact closed Contact open Enclosure covers Enclosure covers Enclosure covers Enclosure covers Enclosure covers Housing Position switches LSIMh Position switches LSIMh Rosion switches Rosion Rosion switches Rosion Ro	Delivery program		
Product range Degree of Protection Peatures Ambient temperature Contacts N/O = Normally open N/C = Normally closed Notes Contact sequence Contact travells = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Housing Housing	Basic function		Position switches
Degree of Protection Features Ambient temperature Contacts N/C = Normally open N/C = Normally closed Notes Contact sequence Contact trave = Contact closed = Contact open Contact trave = Contact closed = Contact open Colour Enclosure covers Enclosure covers Enclosure covers Housing IP65 Basic device, expandable Andien 1 N/C 40 - 470 1 N/C 40 - 470 1 N/C 2 - 40 - 470 1 N/C 40 - 470 1 N/C 1 N/C 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 2 - 40 - 470 1 N/C 1 N/C 2 - 40 - 470 1 N/C 3 - 40 - 470 1 N/C 2 - 40 - 470 1 N/C 3 - 40 - 470 1 N/C 4 - 40 - 470 1 N/C 4 - 40 - 40 - 470 1 N/C 4 - 40 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 - 40 1 N/C 4 - 40 - 40 1 N/C 1 N/C 4 - 40 - 40 1 N/C 1 N/C 4 - 40 - 40 1 N/C 1 N/C 4 - 40 - 40 1 N/C 1 N/C 4 - 40 - 40 1 N/C 1 N/C 2 - 40 - 40 1 N/C 2 - 40 - 4	Part group reference		LS(M)
Features Ambient temperature **C	Product range		Rounded plunger
Ambient temperature Contacts N/O = Normally closed Notes Notes Contact sequence Contact trave = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Housing Ambient temperature 2° C 4-40 - +70 1 N/O 2 = safety function, by positive opening to IEC/EN 60947-5-1 2 27 15 15 2 21 2 2 2 2 2 2 2 2 2 2	Degree of Protection		IP65
Contacts N/O = Normally open Notes Notes Contact sequence Contact trave ■ = Contact closed □ = Contact open Positive opening (ZW) Colour Enclosure covers Enclosure covers Housing I N/O 1 N/O	Features		Basic device, expandable
N/C = Normally open N/C = Normally closed Notes Ontact sequence Contact trave = Contact closed = Contact open Positive opening (ZW) Colour Enclosure covers Housing I N/O 1 NC = safety function, by positive opening to IEC/EN 60947-5-1 15	Ambient temperature	°C	-40 - +70
Notes Notes ⇒ = safety function, by positive opening to IEC/EN 80947-5-1 Contact sequence Contact travel = Contact closed = Contact open 1	Contacts		
Notes	N/O = Normally open		1 N/O
Contact sequence 27	N/C = Normally closed		1 NC →
Contact travel = Contact closed = Contact open 1516	Notes		e safety function, by positive opening to IEC/EN 60947-5-1
Positive opening (ZW) Colour Enclosure covers Finclosure covers Insulated material	Contact sequence		0- \
Enclosure covers Enclosure covers Housing Yellow Insulated material	Contact travel = Contact closed = Contact open		15-16 NC 27-28 NO
Enclosure covers Enclosure covers Housing Yellow Insulated material	Positive opening (ZW)		yes
Enclosure covers Housing Insulated material	Colour		
Housing Insulated material	Enclosure covers		Yellow
	Enclosure covers		
Connection type Screwed terminal	Housing		Insulated material
	Connection type		Screwed terminal

Technical data

General

Standards		IEC/EN 60947
Climatic proofing		Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
Ambient temperature	°C	-40 - +70
Mounting position		As required
Degree of Protection		IP65
Terminal capacities	mm^2	
Solid	mm^2	1 x (0.5 - 2.5)
Flexible with ferrule	mm^2	1 x (0.5 - 1.5)

Contacts/switching capacity

Rated impulse withstand voltage	U_{imp}	V AC	4000
Rated insulation voltage	U_{i}	V	400
Overvoltage category/pollution degree			III/3

Rated operational current	I _e	Α	
AC-15			
24 V	I _e	Α	6
220 V 230 V 240 V	l _e	Α	6
380 V 400 V 415 V	l _e	Α	4
DC-13			
24 V	I _e	Α	3
110 V	I _e	Α	0.6
220 V	I _e	Α	0.3
Control circuit reliability			
at 24 V DC/5 mA	H _F	Fault probabilit	< 10 ⁻⁷ , < 1 fault in 107 operations y
at 5 V DC/1 mA	H _F	Fault probabilit	< 10 ⁻⁶ , < 1 failure at 5 x 10 ⁶ operations
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	6
Repetition accuracy		mm	0.15
Rated conditional short-circuit current		kA	1
Mechanical variables			
Lifespan, mechanical	Operations	x 10 ⁶	8
Contact temperature of roller head		°C	≦ ₁₀₀
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		Ü	25
Operating frequency	Operations/h		≦ ₆₀₀₀
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		N	1.0/8.0
Actuating torque of rotary drives		Nm	0.2
Max. operating speed with DIN cam		m/s	1/0.5
Notes			for angle of actuation α = 0°/30°

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.	°C	-	40
Operating ambient temperature max.	°C	7	70

Technical data ETIM 6.0

16Cililical uata ETTIVI 0.0		
Sensors (EG000026) / End switch (EC000030)		
Electric engineering, automation, process control engineering / Binary sens [AGZ382012])	sor technology, safety-related	d sensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01
Width sensor	mm	31
Diameter sensor	mm	0
Height of sensor	mm	61
Length of sensor	mm	33.5
Rated operation current le at AC-15, 24 V	А	6
Rated operation current le at AC-15, 125 V	Α	6
Rated operation current le at AC-15, 230 V	Α	6
Rated operation current le at DC-13, 24 V	Α	3
Rated operation current le at DC-13, 125 V	А	0.8
Rated operation current le at DC-13, 230 V	Α	0.3
Switching function		Slow-action switch
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		1

Number of contacts as normally closed contact		1
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0
Type of interface		None
Type of interface for safety communication		None
Housing according to norm		-
Construction type housing		Cuboid
Material housing		Plastic
Coating housing		
Type of control element		Plunger
Alignment of the control element		-
Type of electric connection		
With status indication		No
Suitable for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	-40 - 70
Degree of protection (IP)		IP65

Additional product information (links)

IL053001ZU LS-Titan position switch: basic device

IL053001ZU LS-Titan position switch: basic device

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL053001ZU2013_08.pdf