

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

Powering Business Worldwide*

Part no. LS-11S-CC Article no. 176881 Catalog No. LS-11S-CC

Delivery program

Delivery program		
Basic function		Position switches Safety position switches
Part group reference		LS(M)
Product range		Rounded plunger
Degree of Protection		IP65
Features		Basic device, expandable
Ambient temperature	°C	-40 - +70
Design		EN 50047 Form B
Contacts		
N/O = Normally open		1 N/O
N/C = Normally closed		1 NC 🕙
Notes		= safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence		$0 - \frac{13}{14} = \frac{1}{22}$
Contact travel = Contact closed = Contact open		0 3.0 6.1 21-22 13-14 1.6 Zw = 5.5 mm
Positive opening (ZW)		yes
Colour		
Enclosure covers		Yellow
Enclosure covers		
Housing		Insulated material
Connection type		Cage Clamp
Notes		Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany. Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402

Technical data

Genera

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)

			L. W
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	Ui	V	400
Overvoltage category/pollution degree			111/3
Rated operational current	I _e	Α	
AC-15			
24 V	I _e	Α	6
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _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 probabili	< 10 ⁻⁷ , < 1 fault in 107 operations ty
at 5 V DC/1 mA	H _F	Fault probabili	$< 10^{-6}$, < 1 failure at 5 x 10^6 operations ty
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		g	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

Design verification as per IEC/EN 61439

3		
Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature max.	°C	70

for angle of actuation $\alpha = 0^{\circ}/30^{\circ}$

Technical data ETIM 6.0

Notes

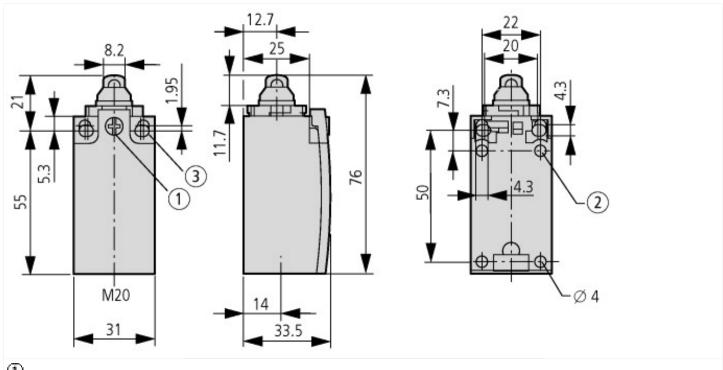
Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01 [AGZ382012])

Width sensormm31Diameter sensormm0Height of sensormm61Length of sensormm33.5	[AGZ382012])		
Height of sensor mm 61	Width sensor	mm	mm 31
	Diameter sensor	mm	mm 0
Length of sensor mm 33.5	Height of sensor	mm	mm 61
	Length of sensor	mm	mm 33.5
Rated operation current le at AC-15, 24 V	Rated operation current le at AC-15, 24 V	Α	A 6
Rated operation current le at AC-15, 125 V A 6	Rated operation current le at AC-15, 125 V	Α	A 6
Rated operation current le at AC-15, 230 V A 6	Rated operation current le at AC-15, 230 V	Α	A 6
Rated operation current le at DC-13, 24 V A 3	Rated operation current le at DC-13, 24 V	Α	A 3
Rated operation current le at DC-13, 125 V A 0.8	Rated operation current le at DC-13, 125 V	А	A 0.8

Rated operation current le at DC-13, 230 V	Α	0.3
Switching function		Quick-break 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		DIN EN 50047
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

Dimensions



Tightening torque Cover screw: 0.8 Nm ±0.2 Nm

2 only with LS (insulated version)

③ Fixing screw 2 x M4 ≥ 30 M_A = 1.5 Nm

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