

Position switch, 1N/O+1N/C, rounded plunger

Part no. LS-11 Article no. 266109



Catalog No. LS-11

Delivery programme		
Basic function		Position switches Safety position switches
Part group reference		LS(M)
Product range		Rounded plunger
Protection type		IP66, IP67
Features		Basic device, expandable
Ambient temperature	°C	-25 - +70
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		$0 - \frac{13}{14} = \frac{21}{22}$
Contact travel = = Contact closed = Contact open		0 4.3 6.1 13-14 NO
		21-22 3.0 NC Zw = 4.5 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

Approvals

Product Standards UL File No. UL Category Control No. CSA File No. CSA Class No. North America Certification Degree of Protection

IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking E29184 NKCR

12528 3211-03

UL listed, CSA certified

IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13

General

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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	-25 - +70

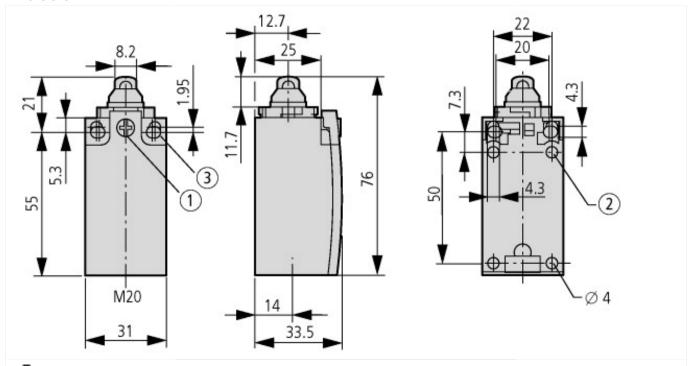
Mounting position			As required
Protection type			IP66, IP67
Terminal capacities		mm ²	
Solid		mm ²	1 x (0.5 - 2.5)
Flexible with ferrule		mm ²	1 x (0.5 - 1.5)
Contacts/switching capacity			
Rated impulse withstand voltage	U _{imp}	V AC	4000
Rated insulation voltage	Ui	V	400
Overvoltage category/pollution degree			III/3
Rated operational current	I _e	Α	
AC-15			
24 V	I _e	Α	6
220 V 230 V 240 V	I _e	Α	6
380 V 400 V 415 V	I _e	Α	4
DC-13			
24 V	l _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 probabi	
at 5 V DC/1 mA	H _F	Fault probabi	$< 10^{-6}$, < 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		g	25
Operating frequency	Operations/		≦ 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 $\alpha = 0^{\circ}/30^{\circ}$

Technical data ETIM 5.0

Toolinear data E File 5.9				
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@ss8-27-27-06-01 [AGZ382011])				
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	А	6		
Rated operation current le at AC-15, 230 V	А	6		

Rated operation current le at DC-13, 24 V	Α	3
Rated operation current le at DC-13, 125 V	Α	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
Suited for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	-25 - 70
Degree of protection (IP)		IP67

Dimensions



- Tightening torque of cover screws: 0.8 Nm ±0.2 Nm
 only with LS (insulated version)
 Fixing screws 2 x M4
 30
 M_A = 1.5 Nm

