

Safety position switch, metal, 1N/O+1N/C, roller plunger

Powering Business Worldwide[™]

LSM-11/P Part no. Article no. 266147 Catalog No. LSM-11-P

Delivery program		
Basic function		Position switches Safety position switches
Part group reference		LS(M)
Product range		Roller plunger
Degree of Protection		IP66, IP67
Features		Complete unit
Ambient temperature	°C	-25 - +70
Design		EN 50047 Form C
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-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Contact travel = Contact closed = Contact open		0 4.3 6.1 13-14 NO 21-22 NC 3.0 Zw = 4.5 mm
Positive opening (ZW)		yes
Colour		
Enclosure covers		Yellow
Enclosure covers		
Housing		Metal
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
Notes The operating head can be rotated at 90° intervals to adapt to the specified approach direction.		

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	-25 - +70
Mounting position		As required
Degree of Protection		IP66, IP67
Terminal capacities	mm ²	

Nated impulse withstand voltage Uimp V AC 400 Nated installation voltage Uimp V AC 400 Nated operational current Vima Vima Vima AC-15 Vima V				
Standards Switching capacity Standard workings Switch in globe with stand voltage Switch in globe with standard gerational current Switch in globe with standard geration with standard geratio	Solid		mm^2	1 x (0.5 - 2.5)
Nation impulse withstand voltage Variable impulse withstand voltage Variable impulse withstand voltage Variable impulse withstand voltage Variable impulse vithstand voltage vithstand voltage Variable impulse vithstand voltage vithstand voltage vithstand voltage Variable impulse vithstand voltage vithstand vol	Flexible with ferrule		mm^2	1 x (0.5 - 1.5)
Note	Contacts/switching capacity			
Name of parational current No.	Rated impulse withstand voltage	U _{imp}	V AC	4000
Reted operational current Pe	Rated insulation voltage	Ui	V	400
AC-15	Overvoltage category/pollution degree			III/3
24 \ 10	Rated operational current	l _e	Α	
220 V 230 V 240 V 15 V 10	AC-15			
1	24 V	l _e	Α	6
10	220 V 230 V 240 V	I _e	Α	6
24V le le A de	380 V 400 V 415 V	I _e	Α	4
110 V 220 V 10 A 220 V 10 A 0.3 Control circuit reliability at 24 V DC/5 mA 4 F Fault probability 10 -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 10 0, -7, < 1 fault in 107 operations 10 0, -7, < 1 fault in 10 0, -7, < 1 fault in 10	DC-13			
220 V Control circuit reliability at 24 V DC/5 mA AFF Fault probability AF	24 V	I _e	Α	3
Control circuit reliability at 24 V DC/5 mA HF Fault probability 10 °, < 1 fault in 107 operations Autour operations Fault probability 10 °, < 1 failure at 5 x 10 ° operations Fault probability 10 °, < 1 failure at 5 x 10 ° operations Max. 400 Ma	110 V	I _e	Α	0.6
He Fault probability of 0-7, < 1 fault in 107 operations at 5 V DC/1 mA Supply frequency He Fault probability 10-6, < 1 failure at 5 x 10 ⁶ operations Supply frequency Hz max. 400 AgG/gt 6 Repetition accuracy Rated conditional short-circuit current Agebraical variables Lifespan, mechanical Mechanical variables Standard-action contact Operations frequency Actuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives He Fault probability 10-7, < 1 fault in 107 operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1 failure at 5 x 10 ⁶ operations 10-6, < 1	220 V	I _e	Α	0.3
Figure 1 of 5 v D C/1 mA Figure 1 of 5 v D C/1 mA Figure 1 of 5 v 1 failure at 5 x 10 ⁶ operations Figure 2 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 3 of 1 failure at 5 x 10 ⁶ operations Figure 4 of 2 of 1 failure at 5 x 10 ⁶ operations Figure 4 of 2 of 1 failure at 5 x 10 ⁶ operations Figure 4 of 2 of 1 failure at 5 x 10 ⁶ operations Figure 4 of 2 of 1 failure at 5 x 10 ⁶ operations Figure 4 of 2 of 1 failure at 5 x 10 ⁶ operations Figure 4 of 2 of	Control circuit reliability			
Supply frequency Short-circuit rating to IEC/EN 60947-5-1 max. fuse A gG/gL A	at 24 V DC/5 mA	H _F	Fault probabili	< 10 ⁻⁷ , < 1 fault in 107 operations ty
Short-circuit rating to IEC/EN 60947-5-1 max. fuse A gG/gL Repetition accuracy mm 0.15 Rated conditional short-circuit current Acchanical variables Lifespan, mechanical Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Operations/h Coperating frequency Operations/h Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives A gG/gL	at 5 V DC/1 mA	H _F	Fault probabili	$< 10^{-6}$, < 1 failure at 5 x 10^6 operations
max. fuse A gG/gL Repetition accuracy mm 0.15 Retentition accuracy mm 0.15 Retentition als hort-circuit current kA 1 Alechanical variables Alfespan, mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact gp 25 Operating frequency Operations y 25 Actuation Actuating force at beginning/end of stroke NC	Supply frequency		Hz	max. 400
Repetition accuracy Rated conditional short-circuit current Rechanical variables Lifespan, mechanical Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Operations Operations/h Operations/h Actuating force at beginning/end of stroke Actuating torque of rotary drives mm 0.15 At 1	Short-circuit rating to IEC/EN 60947-5-1			
Rated conditional short-circuit current Mechanical variables Lifespan, mechanical Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Operations/h Operations/h Actuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives Machanical Mechanical Actuating torque of rotary drives Machanical Mechanical Mechanical Machanical Machani	max. fuse		A gG/gL	6
Altuating force at beginning/end of stroke Actuating torque of rotary drives Operations x 10 ⁶ 8 Operations x 10 ⁶ Significant x 10 ⁶ Signific	Repetition accuracy		mm	0.15
Lifespan, mechanical Operations x 10 ⁶ x 10 ⁶ 8 Mechanical shock resistance (half-sinusoidal shock, 20 ms) g 25 Standard-action contact Operations/h ≤ 6000 Departing frequency Section (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Rated conditional short-circuit current		kA	1
Mechanical shock resistance (half-sinusoidal shock, 20 ms) Standard-action contact Operating frequency Operations/h Actuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives	Mechanical variables			
Standard-action contact Operating frequency Operating frequency Operations/h Actuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives Operations/h Standard-action contact Standard-action co	Lifespan, mechanical	Operations	x 10 ⁶	8
Operating frequency Operations/h Sectuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives Operations/h Sectuations/h Sectuations/h N 1.0/8.0 Nm 0.2	Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Actuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives Natuating torque of rotary drives Natuating torque of rotary drives	Standard-action contact		g	
Actuation Mechanical Actuating force at beginning/end of stroke Actuating torque of rotary drives Natuating torque of rotary drives Natuating torque of rotary drives	Operating frequency	Operations/h		≤ ₆₀₀₀
Actuating force at beginning/end of stroke N 1.0/8.0 Actuating torque of rotary drives Nm 0.2	Actuation			
Actuating torque of rotary drives Nm 0.2	Mechanical			
	Actuating force at beginning/end of stroke		N	1.0/8.0
Max. operating speed with DIN cam m/s 1/1	Actuating torque of rotary drives		Nm	0.2
	Max. operating speed with DIN cam		m/s	1/1

Design verification as per IEC/EN 61439

Notes

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.17
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.

for angle of actuation α = 0°/30°

10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

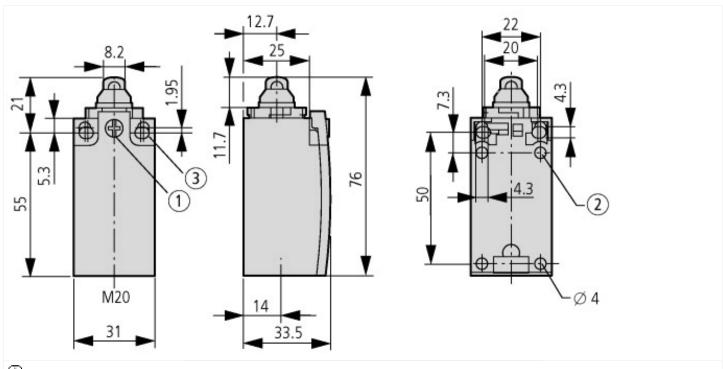
Sensors (EG000026) / End switch (EC000030)

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])

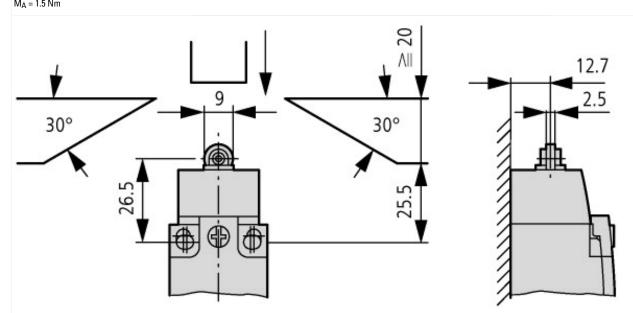
Width sensor mm 31 Diameter sensor mm 0 Height of sensor mm 31 Rated operation current te at AC-15, 24 V mm 6 Rated operation current te at AC-15, 23 V mm 6 Rated operation current te at AC-15, 23 V mm 3 Rated operation current te at DC-13, 24 V mm 3 Rated operation current te at DC-13, 25 V mm 3 Rated operation current te at DC-13, 25 V mm 3 Rated operation current te at DC-13, 25 V mm 3 Switching function mm 6 4 Switching function mm 7 7 Output electronic mm 7 7 7 Force do pension mm 7 7 7 7 Number of safety auxiliary contacts mm 7 7 7 7 Number of contacts as normally open contact mm 7 7 7 7 7 7 7 7 7 7 <th>[AGZ36Z01Z])</th> <th></th> <th></th>	[AGZ36Z01Z])		
Height of sensor mm 51 Length of sensor mm 33.5 Rated operation current le at AC-15, 24 V A 6 Rated operation current le at AC-15, 25 V A 6 Rated operation current le at AC-15, 28 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 25 V A 0 Rated operation current le at DC-13, 25 V A 0 Rated operation current le at DC-13, 25 V A 0 Rated operation current le at DC-13, 25 V A 0 Sulching facility A 0 0 Rated operation current le at DC-13, 25 V A 0 0 Sulching facility A 0 0 0 Sulching facility B 0 0 0 Number of contacts as normally closed contact B 0 0 0 Number of contacts as change-over contact B 0 0 0 0 0 0 0 0 0	Width sensor	mm	31
Length of sensor mm 33-5 Rated operation current le at AC-15, 24 V A 6 Rated operation current le at AC-15, 25 V A 6 Rated operation current le at AC-15, 25 V A 3 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 25 V A 0 Rated operation current le at DC-13, 220 V A 0 Switching function B N No Output electronic B N No Switching function B N No Output electronic B N No Number of contacts as commally closed contact B 1 No Number of contacts as normally open contact B No No Number of contacts as change-over contact B No No Type of interface B No No Whaterial bousing B No No Coating housing B No No Coating housing	Diameter sensor	mm	0
Rated operation current le at AC-15, 24 V A 6 Rated operation current le at AC-15, 125 V A 6 Rated operation current le at AC-15, 230 V A 6 Rated operation current le at DC-13, 24 V A 0 Rated operation current le at DC-13, 24 V A 0 Rated operation current le at DC-13, 250 V A 0 Switching function A 0 3 Utility of lectronic Book No A Forced opening Book No A Number of ortacts as normally closed cortact Book 1 A Number of cortacts as normally closed cortact Book 1 A Number of cortacts as normally closed cortact Book None Type of interface for safety communication Book None Housing according to norm Book None Construction type housing Book Metal Costing housing Book A Aller cam Vipe of control element Book A Aller cam	Height of sensor	mm	61
Rated operation current le at AC-15, 125 V A 6 Rated operation current le at DC-13, 24 V A 3 Rated operation current le at DC-13, 125 V A 3 Rated operation current le at DC-13, 125 V A 3 Switching function Bould a state operation current le at DC-13, 125 V A 3 Switching function Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V A 3 Switching function Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-13, 125 V Bould a state operation current le at DC-1	Length of sensor	mm	33.5
Rated operation current le at AC-15, 230 V A 3 Rated operation current le at DC-13, 24 V A 0 Rated operation current le at DC-13, 125 V A 0 Rated operation current le at DC-13, 230 V A 0 Switching function No 100-action switch Forced opening No No Number of safety auxiliary contacts V 0 Number of contacts as normally closed contact V 1 Number of contacts as normally open contact V 1 Number of contacts as schange-over contact V 1 Number of contacts as change-over contact V 1 Type of interface of safety communication V 1 None None Construction type housing V 1 Material housing V 1 Coating housing V 1 Type of control element V 2 Alignment of the control element V 2 Alignment of the control element V 2 Su	Rated operation current le at AC-15, 24 V	Α	6
Rated operation current le at DC-13, 125 V A 3 Rated operation current le at DC-13, 125 V A 0.8 Rated operation current le at DC-13, 230 V A 0.3 Switching function Bow-action switch Output electronic Bow-action switch Output electronic Yes Non-Action switch Number of safety auxiliary contacts Yes 1 Number of contacts as normally closed contact Yes 1 Number of contacts as normally closed contact Yes 1 Number of contacts as normally open contact Yes 1 Number of interface Yes None Type of interface for safety communication Yes None Construction type housing Cubid Action Material housing Yes None Coating housing Yes Action Type of control element Yes Action Alignment of the control element Yes Action With status indication Yes None Suitable for safety functions Yes	Rated operation current le at AC-15, 125 V	Α	6
Rated operation current le at DC-13, 125 V A 0.8 Rated operation current le at DC-13, 230 V A 0.3 Switching function Solw-action switch Output electronic No No Forced opening Yes Secondary Number of safety auxiliary contacts Yes 1 Number of contacts as normally closed contact Yes 1 Number of contacts as orhangly open contact Yes 1 Number of contacts as orhangly open contact Yes 1 Number of contacts as orhangly open contact Yes None Type of interface Yes None Type of interface for safety communication Yes None Unusual properties for safety communication Yes None Material housing Yes None Coating housing Yes Ale Instruction type housing Metal Coating housing Yes Release type of learner Alignment of the control element Yes Cable entry metrical Will status indication Yes Cable entry metrical<	Rated operation current le at AC-15, 230 V	Α	6
Rated operation current le at DC-13,230 V A 0.3 Switching function Covaction switch Output electronic Movaction switch Forced opening Yes Number of safety auxiliary contacts D Number of contacts as normally closed contact T Number of contacts as normally closed contact T Number of contacts as change-over contact T Number of contacts as change-over contact T Type of interface None Type of interface for safety communication T Type of interface for safety communication T Construction type housing Mova Material housing Metal Construction type housing Metal Material housing Metal Control element Metal Alignment of the control element Metal Alignment of the control element Metal With status indication Metal Suitable for safety functions Metal Suitable for safety functions Metal Suitable for safety functions Metal	Rated operation current le at DC-13, 24 V	Α	3
Switching function Sova-action switch Output electronic Ho No Forced opening Yes Ves Number of safety auxiliary contacts Jo 1 Number of contacts as normally closed contact Jo 1 Number of contacts as normally open contact Jo 1 Number of contacts as change-over contact Jo None Type of interface None None Type of interface for safety communication None None Housing according to norm Mode None Construction type housing Metal None Control element Metal None Type of control element Metal None Alignment of the control element None None Alignment of the control element None None Wink status indication None None Suitable for safety functions None None Suitable for safety functions None None Suitable for safety functions None None Explosion safety category for gas None None	Rated operation current le at DC-13, 125 V	Α	0.8
Output electronic Mo Yes Forced opening Yes 0 Number of safety auxiliary contacts 1 1 Number of contacts as normally closed contact 1 1 Number of contacts as change-over contact 2 1 1 Number of contacts as change-over contact 5 1 1 Type of interface 6 None 1 1 Type of interface for safety communication 6 1 1 1 Housing according to norm 6 1 <td< td=""><td>Rated operation current le at DC-13, 230 V</td><td>Α</td><td>0.3</td></td<>	Rated operation current le at DC-13, 230 V	Α	0.3
Forced opening Yes Number of safety auxiliary contacts 0 Number of contacts as normally closed contact 1 Number of contacts as normally open contact 1 Number of contacts as change-over contact 1 Type of interface 1 Type of interface for safety communication 1 Housing according to norm 1 Construction type housing 1 Material housing 1 Type of control element 1 Type of control element 1 Alignment of the control element 2 Type of electric connection 2 With status indication 3 Suitable for safety functions 4 Explosion safety category for gas 4 Explosion safety category for dust 5 Amended type of electric connection 6 With status indication 6 Suitable for safety functions 6 Explosion safety category for gas 6 Explosion safety category for dust 7 Amended type of element 8 </td <td>Switching function</td> <td></td> <td>Slow-action switch</td>	Switching function		Slow-action switch
Number of safety auxiliary contacts Number of contacts as normally closed contact Number of contacts as normally open contact Number of contacts as normally open contact Number of contacts as change-over contact Number of contacts as change-over contact Type of interface Type of interface for safety communication Number of contacts as change-over contact Type of interface for safety communication None Type of interface for safety communication None Construction type housing Construction type housing Material housing Coting housing Roller of control element Type of electric connection Nith status indication None Suitable for safety functions Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Anient temperature during operating None Suitable for safety function gerating None Suitable for safety category for dust None Suitable for safety functions Suitable for safety category for dust None Suitable for safety functions	Output electronic		No
Number of contacts as normally closed contact 1 Number of contacts as normally open contact 1 Number of contacts as change-over contact 6 Type of interface None Type of interface for safety communication None Housing according to norm DIN EN 50047 Construction type housing Cubic Material housing Metal Coting housing Metal Type of control element Police and an experiment of the control element Alignment of the control element Police and an experiment of the control element 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 Yes Police introduced in the control element None None Yes	Forced opening		Yes
Number of contacts as normally open contact Number of contacts as change-over contact Type of interface Type of interface for safety communication Housing according to norm Construction type housing Material housing Coating housing Coating housing Type of control element Alignment of the control element Type of electric connection With status indication With status indication Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating	Number of safety auxiliary contacts		0
Number of contacts as change-over contact Type of interface Type of interface for safety communication Type of interface for safety communication Housing according to norm Construction type housing Material housing Coating housing Coating housing Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating Done None None Coating housing Cable entry metrical None None None None Cable entry metrical None Cable en	Number of contacts as normally closed contact		1
Type of interface Type of interface for safety communication Housing according to norm Construction type housing Material housing Coating housing Coating housing Coating housing Coating the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for dust Ambient temperature during operating None None None None None None None Non	Number of contacts as normally open contact		1
Type of interface for safety communication Housing according to norm Construction type housing Material housing Coating housing Coating housing Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Ambient temperature during operating None None None None None None None Ambient temperature during operating None None	Number of contacts as change-over contact		0
Housing according to norm Construction type housing Material housing Coating housing Coating housing Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Ambient temperature during operating DIN EN 50047 Cuboid Cuboid Metal Reller cam Roller cam Cable entry metrical No Cable entry metrical No Yes None None Anone Cable entry metrical None	Type of interface		None
Construction type housing Material housing Metal Coating housing Coating housi	Type of interface for safety communication		None
Material housing Coating housing Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating Metal Metal Metal Metal Advantage - Roller cam - Cable entry metrical No Yes Fas None None None - Sone -	Housing according to norm		DIN EN 50047
Coating housing Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Ambient temperature during operating A Roller cam Cable entry metrical No Suitable entry metrical No Yes None None None 25 - 70	Construction type housing		Cuboid
Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating Roller cam Roller cam Cable entry metrical No Yes No No Yes None None 25 - 70	Material housing		Metal
Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating - Cable entry metrical No Robe No No Yes None None - 25 - 70	Coating housing		-
Type of electric connection With status indication Suitable for safety functions Explosion safety category for gas Ambient temperature during operating Cable entry metrical No Yes No Yes None None 25 - 70	Type of control element		Roller cam
With status indication Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating No No None 25 - 70	Alignment of the control element		-
Suitable for safety functions Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating Yes None None 25 - 70	Type of electric connection		Cable entry metrical
Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating None **C	With status indication		No
Explosion safety category for dust Ambient temperature during operating C -25 - 70	Suitable for safety functions		Yes
Ambient temperature during operating °C -25 - 70	Explosion safety category for gas		None
	Explosion safety category for dust		None
Degree of protection (IP)	Ambient temperature during operating	°C	-25 - 70
	Degree of protection (IP)		IP67

Approvals	
Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	12528
CSA Class No.	3211-03
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP66, 67, UL/CSA Type 3R, 4X (indoor use only), 12, 13

Dimensions



- \bigcirc 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

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