



## Safety position switch, 2N/O, rounded plunger



Powering Business Worldwide™

**Part no.** LSM-20  
**Article no.** 266155

**Catalog No.** LSM-20

### Delivery programme

Basic function			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			2 N/O
Contact sequence			
Contact travel <input checked="" type="checkbox"/> = Contact closed <input type="checkbox"/> = Contact open			
Colour			
Enclosure covers			Yellow
Enclosure covers			
Housing			Metal
Connection type			Cage Clamp
<b>Notes</b>			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

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 <sup>2</sup>	
Solid		mm <sup>2</sup>	1 x (0.5 - 2.5)

Flexible with ferrule		mm <sup>2</sup>	1 x (0.5 - 1.5)
<b>Contacts/switching capacity</b>			
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	4000
Rated insulation voltage	U <sub>i</sub>	V	400
Overtoltage category/pollution degree			III/3
Rated operational current	I <sub>e</sub>	A	
AC-15			
24 V	I <sub>e</sub>	A	6
220 V 230 V 240 V	I <sub>e</sub>	A	6
380 V 400 V 415 V	I <sub>e</sub>	A	4
DC-13			
24 V	I <sub>e</sub>	A	3
110 V	I <sub>e</sub>	A	0.6
220 V	I <sub>e</sub>	A	0.3
Control circuit reliability			
at 24 V DC/5 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-7</sup> , < 1 fault in 10 <sup>7</sup> operations
at 5 V DC/1 mA	H <sub>F</sub>	Fault probability	< 10 <sup>-6</sup> , < 1 failure at 5 x 10 <sup>6</sup> 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 <sup>6</sup>	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
<b>Notes</b>			for angle of actuation α = 0°/30°

### Technical data ETIM 5.0

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@ss8-27-27-06-01 [AGZ382011])			
Width sensor		mm	31
Diameter sensor		mm	0
Height of sensor		mm	61
Length of sensor		mm	33.5
Rated operation current I <sub>e</sub> at AC-15, 24 V		A	6
Rated operation current I <sub>e</sub> at AC-15, 125 V		A	6
Rated operation current I <sub>e</sub> at AC-15, 230 V		A	6
Rated operation current I <sub>e</sub> at DC-13, 24 V		A	3
Rated operation current I <sub>e</sub> at DC-13, 125 V		A	0.8
Rated operation current I <sub>e</sub> at DC-13, 230 V		A	0.3
Switching function			Slow-action switch
Output electronic			No

Forced opening			No
Number of safety auxiliary contacts			0
Number of contacts as normally closed contact			0
Number of contacts as normally open contact			2
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			Metal
Coating housing			-
Type of control element			Plunger
Alignment of the control element			-
Type of electric connection			Cable entry metrical
With status indication			No
Suited for safety functions			No
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



