DATASHEET - LSM-11S/L

Safety position switch, LS(M)-..., Roller lever, Complete unit, 1 N/O, 1 NC, EN 50047 Form E, Snap-action contact - Yes, Yellow, Metal, Cage Clamp, -25 - +70 °C



Part no.	LSM-11S/L	
	266151	
EL Number	4356146	
(Norway)		

Product name	Eaton Moeller® series LSM Safety position switch
Part no.	LSM-11S/L
EAN	4015082661519
Product Length/Depth	33.5 millimetre
Product height	96 millimetre
Product width	31 millimetre
Product weight	0.167 kilogram
Certifications	IEC/EN 60947-5 UL 508 CSA File No.: 012528 UL UL Category Control No.: NKCR CE CSA Class No.: 3211-03 CSA-C22.2 No. 14 UL File No.: E29184 CSA IEC/EN 60947
Product Tradename	LSM
Product Type	Safety position switch
Product Sub Type	None
Catalog Notes	The operating head can be rotated 90° to enable adaptation to the specified approach direction
Design	EN 50047 Form E
Electric connection type	Cable entry metrical
Enclosure color	Yellow Cover
Enclosure material	Metal
Features	Forced opening Positive opening Snap-action contact
Switch function type	Quick-break switch
Connection type	Cage Clamp
Degree of protection	IP66/IP67 NEMA Other
Lifespan	8,000,000 mechanical Operations
Operating frequency	6000 Operations/h
Overvoltage category	
Pollution degree	3
Product category	Roller lever
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Suitable for	Safety functions
Туре	Safety position switch
Mounting position	As required
Shock resistance	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C

Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm ²
Terminal capacity (solid)	1 x (0.5 - 2.5) mm ²
Rated conditional short-circuit current (Iq)	1 kA
Rated insulation voltage (Ui)	400 V
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at AC-15, 24 V	6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	4 A
Rated operational current (Ie) at DC-13, 110 V	0.6 A
Rated operational current (Ie) at DC-13, 125 V	0.8 A
Rated operational current (Ie) at DC-13, 220 V, 230 V	0.3 A
Rated operational current (Ie) at DC-13, 24 V	3A
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts
Supply frequency	Max. 400 Hz, Contacts
Actuating force at beginning/end of stroke	1.0 N/8.0 N
Actuating force at beginning/end of stroke Actuating torque of rotary drives	0.2 N·m
Actuating torque of rotary unives	Roller lever
Operating speed	Max. 1 m/s (with DIN cam, mechanical actuation)
	For angle of actuation $\alpha=30^\circ/45^\circ$
Control circuit reliability	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA)
	1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1
Number of contexts (change over contexts)	mA) 0
Number of contacts (change-over contacts) Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	1
Explosion safety category for gas	None
Explosion safety category for dust	None
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.17 W
Rated operational current for specified heat dissipation (In)	6 A
Static heat dissipation, non-current-dependent Pvs	0 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting	Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated.
10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact	Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated.
10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions	Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies	Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.
10.2.4 Resistance to ultra-violet (UV) radiation10.2.5 Lifting10.2.6 Mechanical impact10.2.7 Inscriptions10.3 Degree of protection of assemblies10.4 Clearances and creepage distances	Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.
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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 8.0

Sensors (EG000026) / End switch (EC000030)					
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Safety-related position switch / Safety position switch (Type 1) (ecl@ss10.0.1-27-27-26-01 [AKE640013])					
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	А	3			
Rated operation current le at DC-13, 125 V	А	0.8			
Rated operation current le at DC-13, 230 V	А	0.3			
Switching function		Quick-break switch			
Switching function latching		No			
Output electronic		No			
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		0			
Type of interface		None			
Type of interface for safety communication		None			
Construction type housing		Cuboid			
Material housing		Metal			
Coating housing		Other			
Type of control element		Roller lever			
Alignment of the control element		Other			
Type of electric connection		Cable entry metrical			
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	-25 - 70			
Degree of protection (IP)		IP66/IP67			
Degree of protection (NEMA)		Other			