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  $^{\circ}$ C



Part no. LSM-11S/L

266151

EL Number 4356146

(Norway)

(Norway)	
General specifications	
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
Features & Functions	
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
General information	
Connection type	Cage Clamp
Degree of protection	IP66/IP67 NEMA Other
Lifespan	8,000,000 mechanical Operations
Operating frequency	6000 Operations/h
Overvoltage category	III
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
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
Climatic environmental conditions	
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
Ferminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm <sup>2</sup>
Terminal capacity (solid)	1 x (0.5 - 2.5) mm <sup>2</sup>
Electrical rating	
Rated conditional short-circuit current (Ig)	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 (le) at AC-15, 24 V	6 A
Rated operational current (le) at AC-15, 380 V, 400 V, 415 V	4 A
Rated operational current (le) at DC-13, 110 V	0.6 A
Rated operational current (Ie) at DC-13, 125 V	0.8 A
Rated operational current (le) at DC-13, 220 V, 230 V	0.3 A
Rated operational current (le) at DC-13, 24 V	3 A
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts
Supply frequency	Max. 400 Hz, Contacts
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Actuator	10.000.00
Actuating force at beginning/end of stroke	1.0 N/8.0 N
Actuating torque of rotary drives	0.2 N·m
Actuator type	Roller lever
Operating speed	Max. 1 m/s (with DIN cam, mechanical actuation) For angle of actuation $\alpha=30^{\circ}/45^{\circ}$
Contacts	
Control circuit reliability	1 failure per 10,000,000 switching operations (Statistically determined, at 24 V D mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
Number of contacts (change-over contacts)	0
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	1
Safety	
Explosion safety category for gas	None
Explosion safety category for dust	None
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.17 W
	6 A
Rated operational current for specified heat dissipation (In)	0 W
Static heat dissipation, non-current-dependent Pvs	
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.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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.

10.9.3 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 9.0**

Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related mechanical switch (sensor technology) / Safety position switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])

mm	31
mm	0
mm	61
mm	33.5
Α	6
Α	6
Α	6
Α	3
Α	0.8
Α	0.3
	Quick-break switch
	No
	No
	Yes
	0
	1
	1
	0
	None
	None
	Cuboid
	Metal
	Other
	Roller lever
	Other
	Cable entry metrical
	No
	Yes
	None
	None
°C	-25 - 70
	IP66/IP67
	Other
	mm mm A A A A A A A A A A A A A A A A A