

Safety position switch, LS(M)-..., Actuating rod, Complete unit, 1 N/O, 1 NC, Snap-action contact - Yes, Yellow, Metal, Cage Clamp, -25 - +70 °C



Part no. LSM-11S/RR
266141
EL Number 4356136
(Norway)

General specifications	
Product name	Eaton Moeller® series LSM Safety position switch
Part no.	LSM-11S/RR
EAN	4015082661410
Product Length/Depth	33.5 millimetre
Product height	140 millimetre
Product width	31 millimetre
Product weight	0.196 kilogram
Certifications	CSA Class No.: 3211-03 CSA UL Category Control No.: NKCR UL 508 UL CSA File No.: 012528 UL File No.: E29184 IEC/EN 60947-5 IEC/EN 60947 CE CSA-C22.2 No. 14
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	
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	Actuating rod
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Suitable for	Safety functions
Type	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

Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm ²
Terminal capacity (solid)	1 x (0.5 - 2.5) mm ²
Electrical rating	
Rated conditional short-circuit current (I _q)	1 kA
Rated insulation voltage (U _i)	400 V
Rated operational current (I _e) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (I _e) at AC-15, 24 V	6 A
Rated operational current (I _e) at AC-15, 380 V, 400 V, 415 V	4 A
Rated operational current (I _e) at DC-13, 110 V	0.6 A
Rated operational current (I _e) at DC-13, 125 V	0.8 A
Rated operational current (I _e) at DC-13, 220 V, 230 V	0.3 A
Rated operational current (I _e) at DC-13, 24 V	3 A
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts
Supply frequency	Max. 400 Hz, Contacts
Actuator	
Actuating force at beginning/end of stroke	1.0 N/8.0 N
Actuating torque of rotary drives	0.2 N·m
Actuator type	Actuating rod
Operating speed	Max. 1.5 m/s (with DIN cam, mechanical actuation) L = 130 mm
Contacts	
Control circuit reliability	1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA) 1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 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 P _{vid}	0 W
Heat dissipation capacity P _{diss}	0 W
Heat dissipation per pole, current-dependent P _{vid}	0.17 W
Rated operational current for specified heat dissipation (I _n)	6 A
Static heat dissipation, non-current-dependent P _{vs}	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.
10.2.5 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.
10.9.2 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 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])		
Width sensor	mm	31
Diameter sensor	mm	0
Height of sensor	mm	61
Length of sensor	mm	33.5
Rated operation current I _e at AC-15, 24 V	A	6
Rated operation current I _e at AC-15, 125 V	A	6
Rated operation current I _e at AC-15, 230 V	A	6
Rated operation current I _e at DC-13, 24 V	A	3
Rated operation current I _e at DC-13, 125 V	A	0.8
Rated operation current I _e at DC-13, 230 V	A	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
Housing material		Metal
Coating housing		Other
Type of control element		Actuating rod
Alignment of the control element		Roller cam crossed
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