Safety position switch, LS(M)-..., Rotary lever, Complete unit, 1 N/O, 1 NC, EN 50047 Form A, Snap-action contact - Yes, Yellow, Metal, Cage Clamp, -25 - +70  $^{\circ}$ C



Part no. LSM-11S/RL

266152

EL Number 4356147

(Norway)

(NOT Way)	
Destruction	Fator Marilla @ antica I CM Cofeta analising parity by
Product name	Eaton Moeller® series LSM Safety position switch
Part no.	LSM-11S/RL
EAN	4015082661526
Product Length/Depth	33.5 millimetre
Product height	110 millimetre
Product width	31 millimetre
Product weight	0.2 kilogram
Certifications	CSA-C22.2 No. 14 IEC/EN 60947 UL 508 CSA UL File No.: E29184 CSA File No.: 012528 CE UL IEC/EN 60947-5 CSA Class No.: 3211-03 UL Category Control No.: NKCR
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 A
Electric connection type	Cable entry metrical
Enclosure color	Yellow Cover
Enclosure material	Metal
Features	Forced opening Snap-action contact Positive opening
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	III
Pollution degree	3
Product category	Rotary 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 <sup>2</sup>
Terminal capacity (solid)	1 x (0.5 - 2.5) mm <sup>2</sup>
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	3 A
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 torque of rotary drives	0.2 N⋅m
Actuator type	Rotary lever
Operating speed	Max. 1.5 m/s (with DIN cam, mechanical actuation) For angle of actuation $\alpha=0^{\circ}$
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/mA)
Number of contacts (change-over contacts)	0
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.
10.2.5 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 10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.  Is the panel builder's responsibility.
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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) (pc/@xs10.01-27-27-26-01 [AKF640013])

Diameter sensor   mm   0	(ecl@ss10.0.1-27-27-26-01 [AKE640013])	 	, , , , , , , , , , , , , , , , , , ,
Height of sensor	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, 125 V         A         6           Rated operation current le at AC-15, 230 V         A         3           Rated operation current le at DC-13, 125 V         A         0.8           Rated operation current le at DC-13, 125 V         A         0.8           Rated operation current le at DC-13, 125 V         A         0.8           Rated operation current le at DC-13, 125 V         A         0.8           Rated operation current le at DC-13, 125 V         A         0.8           Rated operation current le at DC-13, 125 V         A         0.9           Switching function         M         0.9         0.0           Switching function         V         No         0.0           Whether of current le at DC-13, 125 V         A         0.9         0.0           Number of contact sa sonorally closed contact         V         0.0         0.0           Number of contacts as normally closed contact         V         0.0         0.0           Number of contacts as change-over contact         V         0.0         0.0           Vipe of interface for safety communication         V	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         3           Rated operation current le at DC-13, 24 V         A         0.8           Rated operation current le at DC-13, 250 V         A         0.3           Rated operation current le at DC-13, 250 V         A         0.3           Switching function         Mo         0.4           Switching function latching         No         No           Output electronic         No         No           Forced opening         Ve         9           Number of safety auxiliary contacts         Ve         1           Number of contacts as normally closed contact         1         1           Number of contacts as normally open contact         No         None           Number of contacts as normally open contact         No         None           Type of interface for safety communication         None         None           Construction type housing         Metal         Cuboid           Material housing         Metal         Cuboid           Material housing         Rotal yelec         Cuboid           Algenment of the con	Height of sensor	mm	61
Rated operation current le at AC-15, 125 V         A         6           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         Cuick-break switch           Switching function         Cuick-break switch           Switching function latching         No           Output electronic         No           Forced opening         Yes           Number of contacts as normally closed contact         1           Number of contacts as normally open contact         1           Number of contacts as normally open contact         1           Number of contacts as change-over contact         None           Type of interface         None           None         Cubick           Material housing         Material housing           Material housing         Other           Alignment of the control element         Rotary lever           Alignment of the control element         Rotary lever           With status indication         None           Suitable for safety unctions <td< td=""><td>Length of sensor</td><td>mm</td><td>33.5</td></td<>	Length of sensor	mm	33.5
Rated operation current le at DC-13, 24 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, 220 V         A         0           Switching function         Cuisch-break switch           Switching function latching         No         No           Output electronic         No         No           Forced opening         Yes         No           Number of safety auxiliary contacts         Yes         1           Number of contacts as normally closed contact         Yes         1           Number of contacts as normally open contact         Yes         1           Number of contacts as change-over contact         Yes         None           Type of interface for safety communication         Yes         None           Construction type housing         Yes         None           Material housing         Yes         Rotary lever           Alignment of the control element         Yes         Rotary lever           Alignment of the control element         Yes         Active lever           With status indication         Yes         Active lever           Suitable for safety	Rated operation current le at AC-15, 24 V	Α	6
Rated operation current le at DC-13, 24 V A 0.8 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 current le at DC-13, 230 V A 0.3 Switching function latching	Rated operation current le at AC-15, 125 V	Α	6
Rated operation current le at DC-13, 125 V Rated operation current le at DC-13, 230 V Rated operation current le at DC-13, 230 V Routeling function  Switching function  Switching function latching Output electronic  Coutput electronic  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 shange-over contact Vipe of interface Type of interface for safety communication Construction type housing Material housing Coating housing Type of control element Type of control element Type of control element With status indication With status indication Suitching for safety functions Explosion safety category for dust Ambient temperature during operating  **Ce Explosion safety category for dust Ambient temperature during operating  **Ce Ip6R/P67  **Ce Ip6R/P67  **Ce Ip6R/P67  **Ce Incommunication (IP)	Rated operation current le at AC-15, 230 V	Α	6
Rated operation current le at DC-13, 230 V  Switching function  Switching function latching  Output electronic  Output electronic  Forced opening  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 normally open contact  Number of contacts as change-over contact  Number of contacts as change-over contact  Number of contacts as change-over contact  Type of interface  Type of interface for safety communication  Construction type housing  Material housing  Coating housing  Material housing  Abligment of the control element  Night of control element  Night of control element  Night of safety functions  Suitable for safety functions  Explosion safety category for dust  Ambient temporature during operating  PC 25 - 70  Hong Clieble (1668/P67)	Rated operation current le at DC-13, 24 V	Α	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           Construction type housing         Cuboid           Material housing         Metal           Coating housing         Metal           Type of control element         8 catary lever           Alignment of the control element         8 catery lever           Alignment of the control element         8 calle can crossed           Type of electric connection         8 calle can crossed           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)         Feeb/P67	Rated operation current le at DC-13, 125 V	Α	0.8
Switching function latching Output electronic Forced opening 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 schange-over contact Number of contacts as change-over contact Number o	Rated operation current le at DC-13, 230 V	Α	0.3
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         Metal           Material housing         Metal           Coating housing         Other           Type of control element         Rotary lever           Alignment of the control element         Roller cam crossed           Type of electric connection         No           With status indication         No           Suitable for safety functions         'es           Explosion safety category for gas         None           Explosion safety category for dust         None           Ambient temperature during operating         "C         25 - 70           Degree of protection (IP)         F66/F67	Switching function		Quick-break switch
Forced opening 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 normally open conta	Switching function latching		No
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         Metal           Material housing         Metal           Coating housing         Other           Type of control element         Roller cam crossed           Alignment of the control element         Roller cam crossed           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           Degee of protection (IP)         IP66/IP67	Output electronic		No
Number of contacts as normally closed contact  Number of contacts as normally open contact  Number of contacts as change-over contact  Number of contacts as change-over contact  Number of contacts as change-over contact  Type of interface  Type of interface for safety communication  Construction type housing  Material housing  Coating housing  Coating housing  Coating housing  Coating housing  Coating housing  Coating the control element  Type of electric connection  With satus indication  Suitable for safety functions  Explosion safety category for gas  Explosion safety category for dust  Ambient temperature during operating  Pignament of the control (IP)  Pignament of the control element  No  Rotary lever  Roller cam crossed  Cable entry metrical  No  No  No  No  No  Pignament of the control element  No  No  No  Pignament of the control element  No  No  No  Explosion safety category for gas  Explosion safety category for dust  Ambient temperature during operating  Pignament of the control (IP)  Pignament of the control element  Pignament of the control element  No  No  No  No  No  Pignament of the control element  No  No  Pignament of the control element  No  No  No  Pignament of the control element  No  No	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  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 dust  Ambient temperature during operating  Degree of protection (IP)  I one  None  None  1 (1)  None  None  None  None  1 (2)  1 (3)  1 (3)  None  None  None  1 (3)  1 (4)  None  None  None  1 (4)  1 (5)  1 (6)  1 (7)  1	Number of safety auxiliary contacts		0
Number of contacts as change-over contact  Type of interface Type of interface for safety communication  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  Degree of protection (IP)  One  None  None  None  PC  25 - 70  None	Number of contacts as normally closed contact		1
Type of interface Type of interface for safety communication  Type of interface for safety communication  Construction type housing  Material housing  Coating housing  Coating housing  Coating housing  Coating housing  Type of control element  Alignment of the 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  C C 25 - 70  Degree of protection (IP)	Number of contacts as normally open contact		1
Type of interface for safety communication  Construction type housing  Material housing  Coating housing  Coating housing  Coating housing  Coating the 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  Degree of protection (IP)  None  None  None  None  None  Per (Coating housing)  Cuboid  Metal  Andient demonstration  Metal  Rotary lever  Rotler cam crossed  Roller cam crossed  Cable entry metrical  No  Cable entry metrical  No  None  Per (Coating housing)  None  Per (Coating housing)  Per	Number of contacts as change-over contact		0
Construction type housing  Material housing Coating housing Coating housing Coating housing Coating housing Type of control element Alignment of the control element Type of electric connection 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 Degree of protection (IP)  Cuboid Metal Cuboid Retaring Metal Cubon Cubo Retaring Cubo Ret	Type of interface		None
Material housing Coating housing Cother Type of control element Alignment of the control element Type of electric connection With status indication Suitable for safety functions Explosion safety category for dust Ambient temperature during operating Degree of protection (IP)  Metal  Metal  Other  Rotary lever  Roller cam crossed  Cable entry metrical  No  Suitable for safety functions Yes  None  None  PC 125 - 70  1P66/IP67	Type of interface for safety communication		None
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  Degree of protection (IP)  Other  Rotary lever  Rotary lever  Rotary lever  Cable entry metrical  Cable entry metrical  No  No  Ves  None  None  PC  -25 - 70  IP66/IP67	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 dust Ambient temperature during operating Degree of protection (IP)  Rotary lever Roller cam crossed Cable entry metrical Cable entry metrical No Cable entry metrical No No Ves Cable entry metrical No No Ves Fab.  Ves Ves None None None None None None None None	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  Degree of protection (IP)  Roller cam crossed  Cable entry metrical  No  No  No  Yes  None  None  None  100  100  100  100  100  100  100  1	Coating housing		Other
Type of electric connection  Cable entry metrical  Cable entry metrical  No  Suitable for safety functions  Explosion safety category for gas  Explosion safety category for dust  Ambient temperature during operating  Degree of protection (IP)  Cable entry metrical  No  Yes  Yes  None  None  Pone  None  1	Type of control element		Rotary lever
With status indication  Suitable for safety functions  Explosion safety category for gas  Explosion safety category for dust  Ambient temperature during operating  Degree of protection (IP)  No  No  No  No  No  No  No  No  No  N	Alignment of the control element		Roller cam crossed
Suitable for safety functions  Explosion safety category for gas  Explosion safety category for dust  Ambient temperature during operating  Pegree of protection (IP)  Yes  None  None  1	Type of electric connection		Cable entry metrical
Explosion safety category for gas  Explosion safety category for dust  Ambient temperature during operating  CC -25 - 70  Degree of protection (IP)  None  1P66/IP67	With status indication		No
Explosion safety category for dust  Ambient temperature during operating  °C -25 - 70  Degree of protection (IP)  IP66/IP67	Suitable for safety functions		Yes
Ambient temperature during operating  °C -25 - 70  Degree of protection (IP)  IP66/IP67	Explosion safety category for gas		None
Degree of protection (IP)  IP66/IP67	Explosion safety category for dust		None
	Ambient temperature during operating	°C	-25 - 70
Degree of protection (NEMA) Other	Degree of protection (IP)		IP66/IP67
	Degree of protection (NEMA)		Other