Safety position switch, LS(M)-..., Rounded plunger, Basic device, expandable, 2 N/O, Yellow, Metal, Cage Clamp, -25 - +70  $^{\circ}$ C



Part no. LSM-20

266155

EL Number

4356156

(Norway
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(Norway)	
General specifications	
Product name	Eaton Moeller® series LSM Safety position switch
Part no.	LSM-20
EAN	4015082661557
Product Length/Depth	33.5 millimetre
Product height	76.5 millimetre
Product width	31 millimetre
Product weight	0.147 kilogram
Certifications	UL 508 CSA Class No.: 3211-03 CSA CSA File No.: 012528 IEC/EN 60947 UL File No.: E29184 UL Category Control No.: NKCR CE UL IEC/EN 60947-5 CSA-C22.2 No. 14
Product Tradename	LSM
Product Type	Safety position switch
Product Sub Type  Catalog Notes	None  Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402 Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany
Features & Functions	
Electric connection type	Cable entry metrical
Enclosure color	Yellow Cover
Enclosure material	Metal
Features	Expandable
Switch function type	Slow-action 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	Rounded plunger
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Туре	Position switch
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
Temperature resistance	100 °C, Contact temperature of roller head
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

1 x (0.5 - 1.5) mm <sup>2</sup>
1 x (0.5 - 2.5) mm <sup>2</sup>
1 kA
400 V
6 A
6 A
4 A
0.6 A
0.8 A
0.3 A
3 A
Max. 6 A gG/gL, Fuse, Contacts
Max. 400 Hz, Contacts
,
1 0 N/8 0 N
1.0 N/8.0 N 0.2 N·m
U.Z IV·M Plunger
For angle of actuation $\alpha$ = 0°/30° Max. 1/0.5 m/s (with DIN cam, mechanical actuation)
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/
mA)
0
0
2
None
None
0 W
0 W
0.17 W
6 A
0 W
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.  Mosts the product standard's requirements
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.
Is the panel builder's responsibility.
Is the panel builder's responsibility.
Is the panel builder's responsibility.  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) (ect@ss13-77-77-76-01 [AKF640018])

switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])			chilology / Salety-related mechanical switch (sensor technology) / Salety position
Width sensor	n	mm	31
Diameter sensor	n	mm	0
Height of sensor	n	mm	61
Length of sensor	n	mm	33.5
Rated operation current le at AC-15, 24 V	A	Д	6
Rated operation current le  at AC-15, 125 V	A	4	6
Rated operation current le  at AC-15, 230 V	A	4	6
Rated operation current le  at DC-13, 24 V	A	4	3
Rated operation current le  at DC-13, 125 V	A	4	0.8
Rated operation current le at DC-13, 230 V	A	4	0.3
Switching function			Slow-action switch
Switching function latching			No
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
Construction type housing			Cuboid
Housing material			Metal
Coating housing			Other
Type of control element			Plunger
Alignment of the control element			Roller cam straight
Type of electric connection			Cable entry metrical
With status indication			No
Suitable for safety functions			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Ambient temperature during operating	0	°C	-25 - 70
Degree of protection (IP)			IP66/IP67
Degree of protection (NEMA)			Other