Position switch, Adjustable roller lever, Complete unit, 1 N/O, 1 NC, Screw terminal, Yellow, Insulated material, -25 - +70 $^{\circ}$ C



Part no. LS-S11/RLA

106790

EL Number

4315208

EL Number (Norway)	4315208
General specifications	
Product name	Eaton Moeller® series LS Position switch
Part no.	LS-S11/RLA
EAN	4015081065578
Product Length/Depth	33.5 millimetre
Product height	120 millimetre
Product width	31 millimetre
Product weight	0.085 kilogram
Certifications	IEC/EN 60947 CSA-C22.2 No. 14 IEC/EN 60947-5 UL Category Control No.: NKCR UL File No.: E29184 UL CE CSA File No.: 012528 CSA Class No.: 3211-03 UL 508 CSA
Product Tradename	LS
Product Type	Position switch
Product Sub Type	None
Catalog Notes	Contacts with safety function, by positive opening to IEC/EN 60947-5-1 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	Insulated material Plastic
Features	Positive opening Forced opening
Switch function type	Slow-action switch
General information	
Connection type	Screw terminal
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	Adjustable roller lever
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Suitable for	Safety functions
Туре	Position switch 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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ferminal 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 (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	3 A			
Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts			
Supply frequency	Max. 400 Hz, Contacts			
Actuator				
	1.0 N/8 0 N			
Actuating force at beginning/end of stroke	1.0 N/8.0 N 0.2 N·m			
Actuator type				
Actuator type Operating speed	Adjustable roller lever Max. 1.5 m/s (with DIN cam, mechanical actuation)			
Operating Speed	For angle of actuation $\alpha = 30^\circ$, L = 125 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 D			
	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			
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				
10.2.5 Lifting	Meets the product standard's requirements. 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. 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. Mosts the product standard's requirements.			
10.4 Clearances and creepage distances	Meets the product standard's requirements.			
10.5 Protection against electric shock	Does not apply, since the entire switches a 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.			

10.9.4 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
	Slow-action switch
	No
	No
	Yes
	1
	1
	1
	0
	None
	None
	Cuboid
	Plastic
	Other
	Adjustable roller lever
	Roller cam crossed
	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