

Position switch, Rotary lever, Complete device, 1 N/O, 1 NC, Snap-action contact - Yes, Cage Clamp, Yellow, Insulated material, -25 - +70 °C, with M12 connector, EN 50047 Form A

**Part no. LS-11S/RL-M12A
178142**

General specifications		
Product name		Eaton Moeller® series LS Position switch
Part no.		LS-11S/RL-M12A
EAN		4015081734658
Product Length/Depth		33.5 millimetre
Product height		125 millimetre
Product width		31 millimetre
Product weight		0.074 kilogram
Certifications		IEC/EN 60947
Product Tradename		LS
Product Type		Position switch
Product Sub Type		None
Catalog Notes		Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany Contacts with safety function, by positive opening to IEC/EN 60947-5-1
Features & Functions		
Design		EN 50047 Form A
Enclosure color		Yellow Cover
Enclosure material		Insulated material
Features		Positive opening Snap-action contact
General information		
Accessories		M12 connector included.
Connection type		Cage Clamp
Degree of protection		IP66
Lifespan, mechanical		8,000,000 Operations
Operating frequency		6000 Operations/h
Overvoltage category		III
Pollution degree		3
Product category		Rotary lever
Rated impulse withstand voltage (Uimp)		2500 V AC
Repetition accuracy		0.15 mm (Contacts/switching capacity)
Type		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, 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 (Iq)		1 kA
Rated insulation voltage (Ui)		250 V

Rated operational current (Ie)		6 A at AC-15, 24 V 3 A at 24 V 1 A at AC-15, 220 V 230 V 240 V 0.3 A at 220 V 4 A at AC-15, 115 V 4 A at AC-15, 380 V 400 V 415 V 0.8 A at 110 V
Short-circuit protection rating		Max. 4 A gG/gL, Fuse, Contacts
Supply frequency		Max. 400 Hz, Contacts
Actuator		
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)
Contacts		
Control circuit reliability		1 failure per 10,000,000 switching operations (Statistically determined, at 24 V DC/5 mA) 1 failure per 5,000,000 switching operations (statistically determined, at 5 V DC/1 mA)
Number of contacts (normally closed contacts)		1
Number of contacts (normally open contacts)		1
Design verification		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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		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) / Drive head for position switches/hinge switches (EC001483)		
Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Mechanical switch (sensor technology) / Drive head for position switches (ecl@ss13-27-27-06-04 [BAA083017])		
Type of control element		Rotary lever