Position switch, Roller plunger, Complete device, 1 N/O, 1 NC, Snapaction contact - Yes, Cage Clamp, Yellow, Insulated material, -25 - +70 $^{\circ}$ C, with M12 connector, EN 50047 Form C



Part no. LS-11S/P-M12A 178141

General specifications	
Product name	Eaton Moeller® series LS Position switch
Part no.	LS-11S/P-M12A
EAN	4015081734641
Product Length/Depth	33.5 millimetre
Product height	101 millimetre
Product width	31 millimetre
Product weight	0.065 kilogram
Certifications	IEC/EN 60947
Product Tradename	LS
Product Type	Position switch
Product Sub Type	None
Catalog Notes	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 Contacts with safety function, by positive opening to IEC/EN 60947-5-1
Features & Functions	
Design	EN 50047 Form C
Electric connection type	Connector M12
Enclosure color	Yellow Cover
Enclosure material	Insulated material Plastic
Features	Forced opening Positive opening Snap-action contact
Switch function type	Quick-break switch
General information	
Accessories	M12 connector included.
Connection type	Cage Clamp
Degree of protection	IP66 NEMA Other
Lifespan	8,000,000 mechanical Operations
Operating frequency	6000 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Roller plunger
Rated impulse withstand voltage (Uimp)	2500 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

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 (le) at AC-15, 115 V	4A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (le) 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 (le) at DC-13, 110 V	0.8 A
Rated operational current (Ie) at DC-13, 125 V	0.6 A
Rated operational current (Ie) at DC-13, 220 V, 230 V	0.3 A
Rated operational current (le) at DC-13, 24 V	3 A
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
Actuating torque of rotary drives Actuator type	u.z iv·m Roller lever
··	
Operating speed	For angle of actuation α = 0°/30° Max. 1/1 m/s (with DIN cam, mechanical actuation)
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 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	Is the panel builder's responsibility.
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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])

Sameter sensor mm mm mm mm mm mm mm	switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])	ety-related sellsor te	echnology / Salety-related mechanical switch (sensor technology) / Salety position
Image 19 19 19 19 19 19 19 1	Width sensor	mm	31
one of sensor mm 33.5 lated operation current le at AC-15, 28 V A 6 lated operation current le at AC-15, 28 V A 6 lated operation current le at AC-15, 28 V A 6 lated operation current le at DC-13, 24 V A 0 lated operation current le at DC-13, 25 V A 0.6 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V A 0.3 lated operation current le at DC-13, 280 V 0.0 0.0 lated operation current le at DC-13, 2	Diameter sensor	mm	0
As de de geration current le at AC-15, 24 V	Height of sensor	mm	86
As taked operation current le at AC-15, 125 V A Bated operation current le at AC-15, 230 V A Bated operation current le at DC-13, 24 V A Bated operation current le at DC-13, 25 V A D BASED Operation current le at DC-13, 230 V A D BASED OPERATION CURRENT LE AT DC-13, 230 V A D BASED OPERATION CURRENT LE AT DC-13, 230 V BOUNDAIR OF ASSESSED OPERATION CURRENT LE AT DC-13, 230 V BOUNDAIR OF ASSESSED OPERATION CURRENT LE AT DC-13, 230 V BOUNDAIR OF ASSESSED OPERATION CURRENT LE AT DC-13, 230 V BOUNDAIR OF BASESSED OPERATION CURRENT LE AT	Length of sensor	mm	33.5
A 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rated operation current le at AC-15, 24 V	Α	6
As taked operation current le at DC-13, 24 V A 0.6 Asted operation current le at DC-13, 25 V A 0.6 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 230 V A 0.3 Asted operation current le at DC-13, 250 V Asted operation operation later le during operating A 0.5 Asted operation current le at DC-13, 250 V A 0.3 Asted operation current le at DC-13, 250 V A 0.3 Asted operation current le at DC-13, 250 V A 0.3 Asted operation current le at DC-13, 250 V A 0.3 Asted operation current le at DC-13, 250 V Asted operation current le at DC-13, 250 V Asted operation current le at DC-13, 250 V As	Rated operation current le at AC-15, 125 V	Α	6
As taked operation current le at DC-13, 125 V A D D D D D D D D D D D D D D D D D D D	Rated operation current le at AC-15, 230 V	А	6
A 0.3 A Duick-break switch A D	Rated operation current le at DC-13, 24 V	Α	3
Switching function latching Sw	Rated operation current le at DC-13, 125 V	Α	0.6
switching function latching butput electronic butput of safety auxiliary contacts butput of contacts as normally closed contact butput of contacts as normally closed contact butput of contacts as normally open contact butput of contacts as normally open contact butput of contacts as change-over contact butput of interface for safety communication butput of interface for safety communication butput of contacts as change-over contact butput of interface for safety communication butput of interface for safety communication butput of contact is as change-over contact butput of interface for safety communication butput of interface for safety communication butput of interface for safety communication butput of control element butput of control element butput of control element butput of control element butput of electric connection but satus indication but satus indication but safety functions contact safety functions but safety functions contact safety functions but safety	Rated operation current le at DC-13, 230 V	А	0.3
No versed opening versed ver	Switching function		Quick-break switch
Forced opening Author of safety auxiliary contacts Author of contacts as normally closed contact Author of contacts as normally open contact Author of contacts as change-over contact Author of conta	Switching function latching		No
Aumber of safety auxiliary contacts Aumber of contacts as normally closed contact Aumber of contacts as normally open contact Aumber of contacts as normally open contact Aumber of contacts as change-over contact Aumber of contacts as normally open contacts Aumber of contacts as normally open contacts Aumber of contacts as normally open contacts Aumber of contacts as normally open conta	Output electronic		No
Aumber of contacts as normally closed contact Aumber of contacts as normally open contact Aumber of contacts as change-over contact Aumber of contacts as normally open contact Aumber of contacts as normally contact Aumber of contac	Forced opening		Yes
Aumber of contacts as normally open contact Aumber of contacts as change-over contact Aumber of contacts as normally open contact Aumber of contacts as change-over contact Aumber of contacts as change Aumber of contacts	Number of safety auxiliary contacts		1
Aumbier of contacts as change-over contact Vive of interface Vive of interface for safety communication Vive of control lement Vive of control element Vive of control element Vive of electric connection Vith status indication No Suitable for safety functions Vith status indication No Suitable for safety category for dust No Suitable for s	Number of contacts as normally closed contact		1
ype of interface ype of interface for safety communication None Construction type housing Coating housing Coating housing Ype of control element Vipe of control element Vipe of electric connection Vipe of electric connection Vibrataus indication Vibrataus indication Vibrataus safety functions Vipe of safety functions Vipe of electric coating housing Vipe of electric connection Vibrataus indication Vibrata	Number of contacts as normally open contact		1
None Construction type housing Construction type housing Contruction type housing Conting housing Mousing Control element Connection Connector M12 Connector M12 Connector M2 Connector M3 Connecto	Number of contacts as change-over contact		0
Construction type housing Adousing material Adousing material Adousing material Adousing housing Adousing ho	Type of interface		None
Housing material Coating housing Coating housing Other Roller lever Roller cam straight Connector M12 With status indication No Suitable for safety functions Explosion safety category for gas Ambient temperature during operating No Plastic Other Roller lever Roller cam straight Connector M12 No No Yes None No No Plastic Plastic Other Roller lever Roller cam straight No Connector M12 No Yes Explosion safety functions Yes None Ambient temperature during operating C -25 - 70 Plastic Plastic Other Roller lever Roller cam straight No Plastic Roller lever Roller cam straight No Plastic No Plastic Roller lever Roller cam straight No Plastic No Plastic Roller cam straight No Plastic No Plastic Roller lever Roller cam straight No Plastic Roller lever Roller cam straight No Plastic Roller cam straight Roller cam straight No Plastic Roller cam straight	Type of interface for safety communication		None
Coating housing Coating housin	Construction type housing		Cuboid
Roller lever Alignment of the control element Alignment of the con	Housing material		Plastic
Alignment of the control element Alignment of electric connection	Coating housing		Other
Type of electric connection With status indication No Suitable for safety functions Explosion safety category for gas Ambient temperature during operating PCC -25 - 70 Degree of protection (IP) Connector M12 No No Yes No No No PCC -25 - 70 IP66	Type of control element		Roller lever
With status indication With status indication No Suitable for safety functions Explosion safety category for gas Explosion safety category for dust None Ambient temperature during operating Oegree of protection (IP) No	Alignment of the control element		Roller cam straight
Suitable for safety functions Suitable for safety functions Suitable for safety functions Suitable for safety category for gas Supposion safety category for dust Supposion safety category for	Type of electric connection		Connector M12
Explosion safety category for gas Explosion safety category for dust Ambient temperature during operating CC CC -25 - 70 Degree of protection (IP) IP66	With status indication		No
Ambient temperature during operating °C -25 - 70 Degree of protection (IP) None None 1P66	Suitable for safety functions		Yes
Ambient temperature during operating °C -25 - 70 Degree of protection (IP) IP66	Explosion safety category for gas		None
Degree of protection (IP)	Explosion safety category for dust		None
	Ambient temperature during operating	°C	-25 - 70
Degree of protection (NEMA) Other	Degree of protection (IP)		IP66
	Degree of protection (NEMA)		Other