Safety position switch, 1N/0+1N/C, insulated material, +actuator ZB, screw connection $\,$



Part no. LS-S11-ZB

106876

EL Number

4356197

General specifications		
Product name	Eat	ton Moeller® series LS Safety position switch
Part no.	LS-	-S11-ZB
EAN	401	15081066391
Product Length/Depth	95	millimetre
Product height	30	millimetre
Product width	30	millimetre
Product weight	0.0	98 kilogram
Compliances	CE	Marked
Certifications	IEC CS. EN UL UL CS. CE UL IEC CS. CS. CS.	
Product Tradename	LS	
Product Type	Sat	fety position switch
Product Sub Type	No	one
Catalog Notes	For thr The of a Wi	intacts with safety function, by positive opening to IEC/EN 60947-5-1 r degree of protection IP65, use V-M20 (206910) cable glands with connecting read of max. 9 mm length. e operating heads can be turned manually in 90° steps to suit the specified levactuation. ith the actuator inserted, the N/O contact is open and the N/C contact is closed ith the actuator inserted, the N/O contact is open and the NC contact is closed.
Features & Functions		
Electric connection type	Cai	ble entry metrical
Enclosure material		sulated material astic
Features	For	rced opening
Material	Pla	astic housing
Switch function type	Slo	ow-action switch
General information		
Connection type	Sc	rew terminal
Degree of protection	IP6 NE	66 EMA Other
Lifespan	1,5	600,000 mechanical Operations
Operating frequency	180	00 Operations/h
Overvoltage category	III	
Pollution degree	3	
Product category	Saf	fety position switches
Rated impulse withstand voltage (Uimp)	400	00 V AC
Repetition accuracy	0.1	5 mm (Contacts/switching capacity)
Suitable for	Sat	fety functions
Туре		sition switch fety position switch
Ambient conditions, mechanical		
Mounting position	Ve	rtical

	As required Horizontal
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
omitato produitg	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm ²
	2 x (0.5 - 1.5) mm ²
Terminal capacity (solid)	2 x (0.5 - 1.5) mm ² 1 x (0.5 - 1.5) mm ²
Screw size	PH1, Terminal screw
Tightening torque	0.4 Nm, Screw terminals
Electrical rating	
Rated conditional short-circuit current (Iq)	1 kA
Rated insulation voltage (Ui)	400 V
Rated operational current (le) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (le) at AC-15, 24 V	10 A
Rated operational current (le) at AC-15, 380 V, 400 V, 415 V	4 A
Rated operational current (le) 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	
Actuating force at beginning/end of stroke	10 N/5 N (plug-in/pull-out)
Actuator type	Other
Contacts	
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.
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])

SWILCH (Type 1/ (eci@3510-27-27-20-01 [AKE040010])		
Width sensor	mm	30
Diameter sensor	mm	0
Height of sensor	mm	96
Length of sensor	mm	33.35
Rated operation current le at AC-15, 24 V	Α	10
Rated operation current le at AC-15, 125 V	Α	6
Rated operation current le at AC-15, 230 V	Α	6
Rated operation current le at DC-13, 24 V	Α	3
Rated operation current le at DC-13, 125 V	Α	0.8
Rated operation current le at DC-13, 230 V	Α	0.3
Switching function		Slow-action switch
Switching function latching		No
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		1
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		Cuboid
Housing material		Plastic
Coating housing		Other
Type of control element		Other
Alignment of the control element		Other
Type of electric connection		Cable entry metrical
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)		IP66
Degree of protection (NEMA)		Other