

# Specifications



Photo is representative

## Eaton 114291

Eaton Moeller® series LS4 Safety position switch, LS(4)...ZB, Safety position switches, 1 N/O, 1 NC, narrow, Snap-action contact - Yes, Screw terminal

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series LS4 Safety position switch
<b>CATALOG NUMBER</b>	114291
<b>MODEL CODE</b>	LS4/S11-S/I/ZB/X
<b>EAN</b>	4015081136889
<b>PRODUCT LENGTH/DEPTH</b>	43 mm
<b>PRODUCT HEIGHT</b>	125 mm
<b>PRODUCT WIDTH</b>	56 mm
<b>PRODUCT WEIGHT</b>	0.167 kg
<b>CERTIFICATIONS</b>	IEC/EN 60947
<b>CATALOG NOTES</b>	With the actuator inserted, the N/O contact is open and the NC contact is closed.
<b>GLOBAL CATALOG</b>	114291

## Product specifications

<b>TYPE</b>	Safety position switch
<b>FEATURES</b>	Forced opening Snap-action contact
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.

## Resources

<b>CATALOGS</b>	<a href="#">eaton-pushbuttons-signal-towers-sensors-assortment-overview-catalog-ca047003en-en-us.pdf</a>  <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-safety-position-switch-declaration-of-conformity-eu250564en.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-safety-position-switches-actuation-ls4-dimensions.eps</a>  <a href="#">eaton-safety-position-switches-actuation-ls4-dimensions-002.eps</a>
<b>ECAD MODEL</b>	<a href="#">ETN.LS4_S11-S1_ZB_X</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL05208004Z</a>
<b>MCAD MODEL</b>	<a href="#">basis_ls4_o_b.stp</a>  <a href="#">basis_ls4_o_b</a>
<b>SALES NOTES</b>	<a href="#">eaton-safety-switches-rs-titan-flyer-fl053001en-en-us.pdf</a>

<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>ELECTRIC CONNECTION TYPE</b>	Cable entry metrical
<b>ENCLOSURE MATERIAL FINISHING</b>	Other
<b>OPERATING FREQUENCY</b>	1800 Operations/h
<b>POLLUTION DEGREE</b>	3
<b>ACTUATOR ALIGNMENT</b>	Other
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>ENCLOSURE MATERIAL</b>	Plastic
<b>ENCLOSURE TYPE</b>	Cuboid
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 110 V</b>	0.8 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 125 V</b>	0.8 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13, 220 V, 230 V</b>	0.3 A
<b>RATED OPERATIONAL CURRENT (IE) AT DC-13,</b>	3 A

<b>24 V</b>	
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	6 A
<b>SENSOR HEIGHT</b>	125 mm
<b>SENSOR LENGTH</b>	40 mm
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>WIDTH SENSOR</b>	40 mm
<b>PRODUCT CATEGORY</b>	Safety position switches
<b>ACTION</b>	2021118113756-Mechanical Limit Switches.xlsm-Data
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	None
<b>EXPLOSION SAFETY CATEGORY FOR GAS</b>	None
<b>ACTUATOR TYPE</b>	None
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>DIAMETER SENSOR</b>	0 mm
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.1 W
<b>NUMBER OF CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF SAFETY AUXILIARY CONTACTS</b>	0
<b>RATED INSULATION</b>	500 V

<b>VOLTAGE (UI)</b>	
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 125 V</b>	6 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 220 V, 230 V, 240 V</b>	6 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 24 V</b>	10 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-15, 380 V, 400 V, 415 V</b>	4 A
<b>MOUNTING POSITION</b>	As required
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONNECTION TYPE</b>	Screw terminal
<b>DEGREE OF PROTECTION</b>	IP65 NEMA Other
<b>INTERFACE TYPE</b>	None
<b>SWITCH FUNCTION TYPE</b>	Slow-action switch
<b>SCREW SIZE</b>	PH1, Terminal screw
<b>REPETITION ACCURACY</b>	0.02 mm (Contacts/switching capacity)
<b>SHOCK RESISTANCE</b>	5 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
<b>SUPPLY FREQUENCY</b>	Max. 400 Hz, Contacts
<b>SUITABLE FOR</b>	Safety functions
<b>SHORT-CIRCUIT PROTECTION RATING</b>	Max. 10 A gG/gL, Fuse, Contacts
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x (0.5 - 1.5) mm <sup>2</sup> 2 x (0.5 - 1.5) mm <sup>2</sup>
<b>TERMINAL CAPACITY (SOLID)</b>	2 x (0.75 - 1.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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