DATASHEET - LS4/S11-S/I/ZB/X



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



Part no. LS4/S11-S/I/ZB/X Catalog No. 114291

Alternate Catalog LS4-S11-S-I-ZB-X

No

Delivery program

71 0	
Basic function	Position switches Safety position switches
Part group reference	LS(4)ZB
Product range	Safety position switches
Degree of Protection	IP65
Snap-action contact	Yes
Description	With the actuator inserted, the N/O contact is open and the NC contact is closed.
Contacts	
N/0 = Normally open	1 N/O
N/C = Normally closed	1 NC →
Notes	e safety function, by positive opening to IEC/EN 60947-5-1
Connection type	Screw terminal

IEC/EN 60947

Technical data

Standard-action contact

General Standards

Climatic proofing Damp heat, constant, to IEC 60068-2-7 Mounting position As required Degree of Protection IP65 Terminal capacities mm² Solid mm² 1 x (0.75 - 2.5) 2 x (0.75 - 1.5) Elexible with ferrule mm² 1 x (0.5 - 1.5) 2 x (0.5 - 1.5)	78; damp heat, cyclical, to IEC 60068-2-30
Degree of Protection IP65 Terminal capacities mm² Solid mm² 1 x (0.75 - 2.5) 2 x (0.75 - 1.5) Flexible with ferrule mm² 1 x (0.5 - 1.5)	
Terminal capacities mm^2 Solid $mm^2 1 \times (0.75 - 2.5) \\ 2 \times (0.75 - 1.5)$ Flexible with ferrule $mm^2 1 \times (0.5 - 1.5)$	
Solid $mm^2 = 1 \times (0.75 - 2.5) \\ 2 \times (0.75 - 1.5)$ Flexible with ferrule $mm^2 = 1 \times (0.5 - 1.5)$	
2 x (0.75 - 1.5) Flexible with ferrule mm ² 1 x (0.5 - 1.5)	
_ X (0.0 1.0)	
Terminal screw PH1	
Repetition accuracy mm 0.02	
Contacts/switching capacity	
Rated impulse withstand voltage V AC 6000	
Rated insulation voltage U _i V 500	
Overvoltage category/pollution degree III/3	
Rated operational current I _e A	
AC-15	
24 V I _e A 6	
220 V 230 V 240 V I _e A 6	
380 V 400 V 415 V I _e A 4	
DC-13	
24 V I _e A 3	
110 V I _e A 0.8	
220 V I _e A 0.3	
Supply frequency Hz max. 400	
Short-circuit rating to IEC/EN 60947-5-1	
max. fuse A gG/gL 10	
Mechanical variables	
Mechanical shock resistance (half-sinusoidal shock, 20 ms)	

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Design verification as per IEC/EN 61439

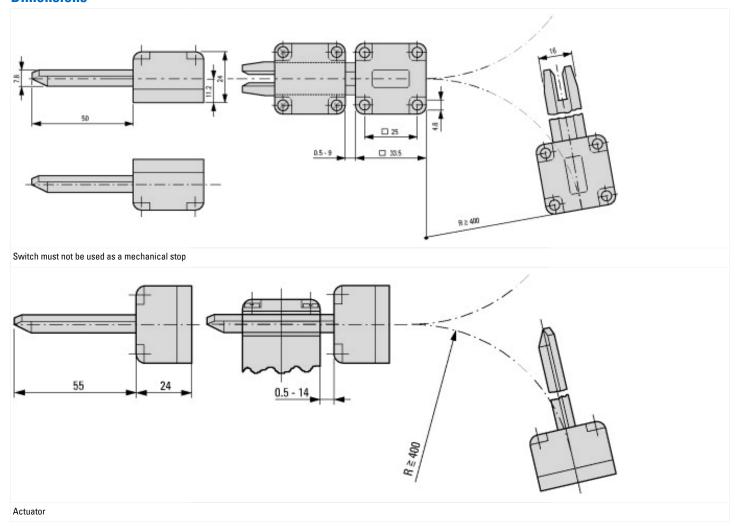
Design vermountion as per 120/214 01-103			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.1
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
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 7.0

Electric engineering, automation, process control engineering / Binary sensor tech (ecl@ss10.0.1-27-27-06-01 [AGZ382015])	nnology, safety-rel	lated se	nsor technology / Position switch / Position switch (Type 1)
Width sensor	m	nm	40
Diameter sensor	m	nm	0
Height of sensor	m	nm	125
Length of sensor	m	nm	40
Rated operation current le at AC-15, 24 V	А	١	10
Rated operation current le at AC-15, 125 V	А	١	6
Rated operation current le at AC-15, 230 V	А	١.	6
Rated operation current le at DC-13, 24 V	А	١.	3
Rated operation current le at DC-13, 125 V	А	١.	0.8
Rated operation current le at DC-13, 230 V	А	١.	0.3
Switching function			Slow-action switch
Switching function latching			No
Output electronic			No
Forced opening			Yes

Number of safety auxiliary contacts		0
Number of contacts as normally closed contact		0
Number of contacts as normally open contact		0
Number of contacts as change-over contact		0
Type of interface		None
Type of interface for safety communication		None
Construction type housing		Cuboid
Material housing		Plastic
Coating housing		Other
Type of control element		None
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)		IP65
Degree of protection (NEMA)		13

Dimensions



Assets (links)

Declaration of CE Conformity 00003114