DATASHEET - LS-S11-CC-ZB



Position switches, 1N/C+1N/O, rounded plunger, +actuator ZB, Cold Climate -40°C



Part no. LS-S11-CC-ZB Catalog No. 177191 Alternate Catalog LS-S11-CC-ZB No.

Delivery program

Derivery program		
Basic function		Position switches Safety position switches
Part group reference		LS(4)ZB
Product range		Safety position switches
Degree of Protection		IP65
Features		Complete unit
Ambient temperature	°C	-40 - +70
Description		With the actuator inserted, the N/O contact is open and the NC contact is closed.
Approval		ET 18072 Sicherheit geprüft tested safety
Contacts		
N/O = Normally open		1 N/O
N/C = Normally closed		1 NC 🕀
Notes		Θ = safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence		$ \begin{array}{c} \uparrow & \downarrow^{13} & \downarrow^{21} \\ \uparrow & \downarrow^{14} & \downarrow^{22} \end{array} $
Housing		Insulated material
Connection type		Screw terminal
Notes Switch must never be used as a mechanical stop!		

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Actuator can be repositioned for horizontal or vertical mounting. The operating heads can be turned manually in 90° steps to suit the specified level of actuation.

With the actuator inserted, the N/O contact is open and the N/C contact is closed.

For degree of protection IP65, use V-M20 (206910) cable glands with connecting thread of max. 9 mm length.

Technical data General

General		
Standards		IEC/EN 60947
Climatic proofing		Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30
Ambient temperature	°C	-40 - +70
Mounting position		As required
Degree of Protection		IP65
Terminal capacities	mm ²	
Solid		1 x (0.5 - 1.5) 2 x (0.5 - 1.5)
Flexible with ferrule	mm ²	1 x (0.5 - 1.5)

			2 x (0.5 - 1.5)
Terminal screw			PH1
Repetition accuracy		mm	0.15
Contacts/switching capacity			
Rated impulse withstand voltage	U _{imp}	V AC	4000
Rated insulation voltage	Ui	V	400
Overvoltage category/pollution degree			111/3
Rated operational current	Ι _e	А	
AC-15			
24 V	Ι _e	А	6
220 V 230 V 240 V	Ι _e	А	6
380 V 400 V 415 V	Ι _e	А	4
DC-13			
24 V	Ι _e	А	3
110 V	Ι _e	А	0.6
220 V	Ι _e	А	0.3
Supply frequency		Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1			
max. fuse		A gG/gL	6
Mechanical variables			
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	25
Operating frequency	Operations/h		≦ 1800

Design verification as per IEC/EN 61439

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Fechnical data for design verification			
Rated operational current for specified heat dissipation	In	А	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.17
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
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	70
EC/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.

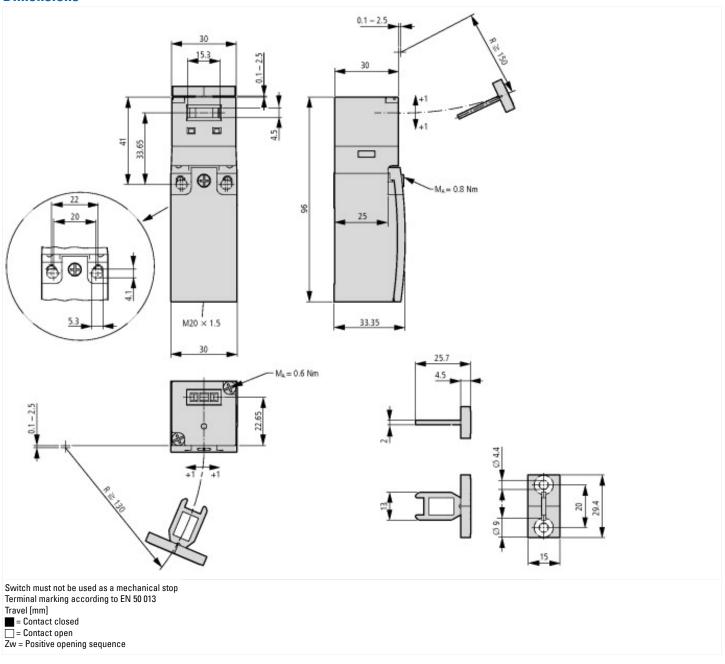
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Sensors (EG000026) / End switch (EC000030)

Vidth sensor	m	ım	31
iameter sensor	m	ım	0
leight of sensor	m	ım	96
ength of sensor	m	ım	33.5
ated operation current le at AC-15, 24 V	A		6
lated operation current le at AC-15, 125 V	A		6
lated operation current le at AC-15, 230 V	А		6
ated operation current le at DC-13, 24 V	А		3
lated operation current le at DC-13, 125 V	А		0.8
ated operation current le at DC-13, 230 V	A	L L	0.3
witching function			Slow-action switch
witching function latching			No
utput electronic			No
orced opening			Yes
lumber of safety auxiliary contacts			1
umber of contacts as normally closed contact			1
lumber of contacts as normally open contact			1
lumber of contacts as change-over contact			0
ype of interface			None
ype of interface for safety communication			None
Construction type housing			Cuboid
Aaterial housing			Plastic
coating housing			Other
ype of control element			Plunger
lignment of the control element			Other
ype of electric connection			Other
Vith status indication			No
uitable for safety functions			Yes
xplosion safety category for gas			None
xplosion safety category for dust			None
mbient temperature during operating	°C	С	40 - 70
legree of protection (IP)			IP65

Dimensions



Assets (links)

Declaration of CE Conformity

00003156

Instruction Leaflets IL05208003Z2018_06

Additional product information (links)

IL05208003Z (AWA1310-2374) Safety position switch

IL05208003Z (AWA1310-2374) Safety position switch ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208003Z2019_01.pdf