

Safety position switch, 2 N/C, insulated material, +actuator ZB, spring clamp connection

Powering Business Worldwide™

Part no. LS-02-ZB Article no. 106817 Catalog No. LS-02-ZB

Delivery programme

Part group reference Part group reference Part group reference Product range Degree of Protection Peatures Description Approval Contacts NC = Normally closed Notes Contact sequence Contact seq	Donvoly programmo		
Perduct range Degree of Protection Features Complete unit Ambient temperature "C -25 - +70 With the actuator inserted, the N/O contact is open and the NC contact is closed. Approval Contacts N/C = Normally closed Notes Contact sequence Insulated material Connection type Notes Cage Clamp Cage Clamp Cage Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany. Cape, Wago Power Comb, gray, Wago Cage, Clamp terminals from Wago-power comb, gray, Wago	Basic function		
Degree of Protection Features Complete unit Ambient temperature *C -25 - +70 With the actuator inserted, the N/O contact is open and the NC contact is closed. Approval Contacts N/C = Normally closed Notes Contact sequence Discription Approval Contact sequence Discription Notes Contact sequence Discription Insulated material Connection type Cage Clamp Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany. Accessories for the Cage-Clamp terminals from Wagopower comb, gray, Wago	Part group reference		LS(4)ZB
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Ambient temperature Description Approval Contacts N/C = Normally closed Notes Contact sequence Housing Connection type Notes Notes Connection type Notes Cage Clamp Cage Clamp terminals from Wago power comb, gray, Wago Accessories for the Cage-Clamp terminals from Wago power comb, gray, Wago	Degree of Protection		IP66
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Connection type Cage Clamp Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany. Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago	Contact sequence		£###
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Germany. Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago	Connection type		Cage Clamp
	Notes		Germany. Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago

Notes Switch must never be used as a mechanical stop!

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

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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	-25 - +70
Mounting position		As required
Degree of Protection		IP66
Terminal capacities	mm^2	
Solid	mm^2	1 x (0.5 - 1.5) 2 x (0.5 - 1.5)
Flexible with ferrule	mm ²	1 x (0.5 - 1.5)

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.17
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	-25
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 6.0

Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Position switch / Position switch (Type 1) (ecl@ss8.1-27-27-06-01 [AGZ382012])

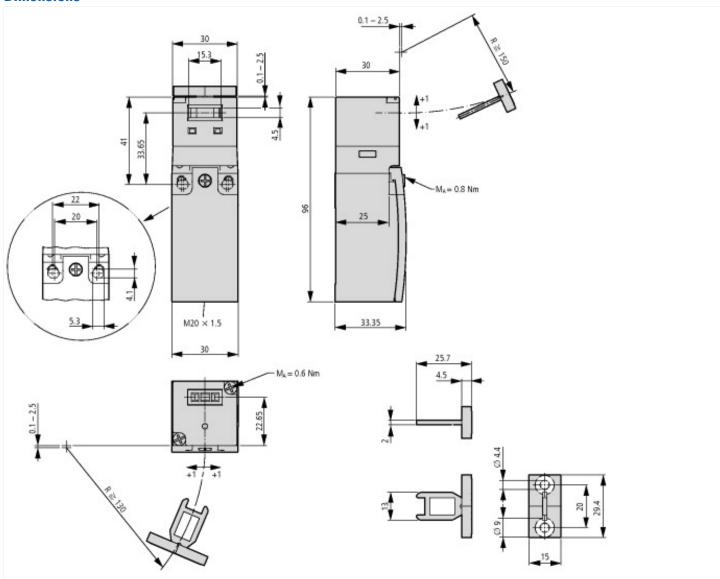
Width sensor	r	mm	30
Diameter sensor	r	mm	0
Height of sensor	r	mm	96
Length of sensor	r	mm	33.35
Rated operation current le at AC-15, 24 V	A	A	10
Rated operation current le at AC-15, 125 V	Į.	A	6
Rated operation current le at AC-15, 230 V	A	A	6
Rated operation current le at DC-13, 24 V	A	A	3
Rated operation current le at DC-13, 125 V	A	A	0.8
Rated operation current le at DC-13, 230 V	A	A	0.3
Switching function			Slow-action switch
Output electronic			No
Forced opening			Yes
Number of safety auxiliary contacts			0
Number of contacts as normally closed contact			2
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
Housing according to norm			
Construction type housing			Cuboid
Material housing			Plastic
Coating housing			-
Type of control element			-
Alignment of the control element			-
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	°C	-25 - 70
Degree of protection (IP)			IP65

Approvals

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Product Standards	IEC/EN 60947-5; UL 508; CSA-C22.2 No. 14; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	12528
CSA Class No.	3211-03

IEC: IP65, UL/CSA Type 3R, 4X (indoor use only), 12, 13

Dimensions



Switch must not be used as a mechanical stop

Terminal marking according to EN 50 013

Travel [mm]

- = Contact closed
- = Contact open

Zw = Positive opening sequence

Additional product information (links)

IL05208003Z (AWA1310-2374) Safety position switch

IL05208003Z (AWA1310-2374) Safety position switch

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208003Z2012_12.pdf

IL05208004Z (AWA1310-2367) Safety position switch

IL05208004Z (AWA1310-2367) Safety position switch

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05208004Z2012_12.pdf