DATASHEET - LS-S11-24DFT-ZBZ/X

Part no.

No.

Catalog No.

EL-Nummer

(Norway)



Position switch, 1N/O+1N/C, basic, spring-powered interlock

LS-S11-24DFT-ZBZ/X 106829 **Alternate Catalog** LS-S11-24DFT-ZBZ/X 4356170



Delivery program

Dontory program			
Basic function			Position switches Safety position switches
Part group reference			LSZBZ/X
Product range			Basic units with spring-powered interlock (closed-circuit principle)
Degree of Protection			IP65
Features			Basic device, expandable
Ambient temperature		°C	-25 - +40
Description			With interlock monitoring with auxiliary release mechanism Monitoring of door position: continuous
Approval			ET 18060 Sicherheit geprüft tested safety
Contacts			
N/O = Normally open			1 N/O
N/C = Normally closed			1 NC 🛞
Notes) = safety function, by positive opening to IEC/EN 60947-5-1
Contact sequence			$ \bigwedge_{14}^{11} \bigvee_{14}^{13} \bigvee_{22}^{14} \bigvee_{22}^{21} \bigvee_{$
Rated control voltage for magnetic drive	Us	V	24 V DC
Housing			Insulated material
Connection type			Screw terminal

Notes Switch must never be used as a mechanical stop! The operating head can be rotated manually in 90° steps without tools 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. In the event of power failure (e.g., during commissioning), the device can be released with a screwdriver. The auxiliary release mechanism must be sealed! → Instructional leaflet IL 05208005Z

Technical data 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	-25 - +40
Mounting position		As required
Degree of Protection		IP65
Terminal capacities	mm ²	
Solid	mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

Flexible with ferrule		2	1 x (0.5 - 1.5)
		mm ²	2 x (0.5 - 1.5)
Terminal screw			PH1
Tightening torque for terminal screw		Nm	0.9
Repetition accuracy		mm	0.02
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	le	А	
AC-15			
24 V	le	А	6
220 V 230 V 240 V	le	A	6
380 V 400 V 415 V	le	A	4
DC-13			
24 V	le	A	3
110 V	le	A	0.8
220 V	l _e	А	0.3
Supply frequency	.6	Hz	max. 400
Short-circuit rating to IEC/EN 60947-5-1		112	
max. fuse		A gG/gL	6
Rated conditional short-circuit current		kA	1
Mechanical variables		101	
Lifespan, mechanical	Operations	x 10 ⁶	1
Mechanical shock resistance (half-sinusoidal shock, 20 ms)			
Standard-action contact		g	10
Operating frequency	Operations/h	-	≦ 800
Actuation			
Mechanical			
Actuating force at beginning/end of stroke		Ν	25/15 (plug-in/pull-out)
Mechanical holding force acc. to GS-ET-19 (04/2004)			
XG, XW, XNG		Ν	1700
XWA, XFG, XF		Ν	1600
XNW		Ν	1200
Electromechanical			
For magnet			
Power consumption			
at 120 V AC		VA	8
at 230 V AC		VA	11
at 24 V DC		W	8
Disk up and drap out values		x U _s	0.85 - 1.1
Pick-up and drop-out values			

Design verification as per IEC/EN 61439

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	6
Heat dissipation per pole, current-dependent	P _{vid}	W	0.13
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	40
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.

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		
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. 10.3.0 Begree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Does not apply, since the entire switchgear needs to be evaluated. 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. 10.9 Instruction advicting devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.9 Instruction for external conductors Is the panel builder's responsibility. 10.9 Instruction properties Is the panel builder's responsibility. 10.9.1 Store requery electric strength Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is the panel builder's responsibility. 10.9.1 Store-circuit rating Is the panel builder's responsibility. <td>10.2.3.1 Verification of thermal stability of enclosures</td> <td>Meets the product standard's requirements.</td>	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
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Technical data ETIM 7.0

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@ss10.0.1-27-27-06-01 [AGZ382015])

(eci@ss10.0.1-27-27-00-01 [A02302015])		
Width sensor	mm	60
Diameter sensor	mm	0
Height of sensor	mm	173
Length of sensor	mm	39
Rated operation current le at AC-15, 24 V	А	6
Rated operation current le at AC-15, 125 V	А	6
Rated operation current le at AC-15, 230 V	А	6
Rated operation current le at DC-13, 24 V	А	3
Rated operation current le at DC-13, 125 V	А	0.8
Rated operation current le at DC-13, 230 V	А	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
Material housing		Plastic
Coating housing		Other
Type of control element		Other
Alignment of the control element		Other
Type of electric connection		Other
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

Approvals 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 North America Certification UL listed, CSA certified Degree of Protection IEC: IP65, UL/CSA Type 3R, 4X (indoor use only), 12, 13



