Technical Data and Specifications

LS-Titan Safety Interlock Switches

	Units		LSZBZ	LSZB	LS4ZB
General					
Standards			IEC/EN 60947	IEC/EN 60947	IEC/EN 60947
Climatic proofing			1	①	1
Ambient temperature		°C	-25 +0	−25 +70	−25+70
Mounting position			As required	As required	As required
Protection type			IP65	IP65	IP65
Terminal capacities					
Solid		mm ²	1 x (0.75–2.5)/2 x (0.75–1.5)	1 x (0.75–2.5)/2 x (0.75–1.5)	1 x (0.75–2.5)/2 x (0.75–1.5)
Flexible with ferrule		mm ²	1 x (0.75–2.5)/2 x (0.75–1.5)	1 x (0.75–2.5)/2 x (0.75–1.5)	1 x (0.75–2.5)/2 x (0.75–1.5)
Contacts/Switching Capacity			1 X (0.7 0 2.0) 2 X (0.7 0 1.0)	1 X (6.76 2.5) 2 X (6.76 1.5)	1 X (0.70 2.0)/2 X (0.70 1.0)
Rated impulse withstand voltage	U _{imp}	Vac	4000	6000	6000
Rated insulation voltage	Ui	V	400	500	500
Overvoltage category/pollution degree	O)	v	III/3	III/3	III/3
Burden Current			111/3	111/3	111/5
AC-15					
24V	1	Λ	6	10	10
	l _e	A			
230V/240V	l _e	A	6	6	6
400V/415V	l _e	A	4	4	4
DC-13					
24V	le	A	3	3	3
110V	le	А	0.8	0.8	0.8
220V	l _e	А	0.3	0.3	0.3
Supply frequency		Hz	max.400	max. 400	max.400
Short-circuit rating to IEC/EN 60947-5-1 Max. fuse		A gG/gL	6	6	6
Repetition accuracy		mm	± 0.02	± 0.02	± 0.02
Mechanical Variables					
Lifespan					
Standard-action contact	Operations	x 10 ⁶	1	10	10
Snap-action contact	Operations	x 10 ⁶			
Mechanical shock resistance (half-sinusoidal shock, 20 ms)					
Standard-action contact		g	10	25	5
Snap-action contact		g			
Operating frequency	Operations/h		≤800	≤ 1800	≤ 1800
Actuation					
Mechanical					
Actuating force at beginning/end of stroke					
ZB/ZBZ (push in/pull out)		N	25/15	10/5	15/20
Mechanical holding force according to GS-ET-19 (04/2004)					
XG, XW		N	1500	N/A	N/A
XFF, XNG, XWA		N	1300	N/A	N/A
XF		N	750	N/A	N/A
XNW		N	500	N/A	N/A
Electromechanical		14	000	IV/D	IN/II
For magnet					
Power consumption					
		VA	0	N/Λ	NI/A
at 120 Vac			8	N/A	N/A
at 230 Vac		VA	11	N/A	N/A
at 24 Vdc		W	8	N/A	N/A
Pickup and dropout values		x U _s	0.85–1.1	N/A	N/A
Magnet duty factor		% ED	100	N/A	N/A

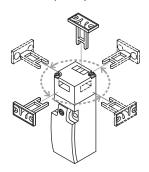
Note

 $^{^{\}scriptsize \textcircled{1}}$ Damp heat, constant, to IEC 60068-2-78; damp heat, cyclical, to IEC 60068-2-30.

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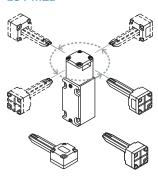
Mounting Instructions

LS-...ZB, TKG, TS



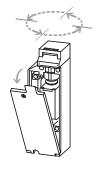
Actuator can be repositioned for horizontal or vertical installation. The operating heads can be rotated manually in 90° steps to suit the specified direction of operation.

LS4-...ZB

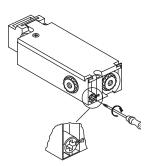


Actuator can be repositioned for horizontal or vertical installation. The operating heads can be rotated manually in 90° steps to suit the specified direction of operation.

LS-...ZBZ



The operating head can be rotated manually in 90° steps to suit the specified level of actuation.



In the event of a loss of voltage, (e.g., during commissioning), the spring-powered LS-.....FT-ZBZ can be released with a screwdriver. The auxiliary release mechanism must be sealed.