Technical Data
Staircase Time Switches

Eltako ELECTRONICS

Contacts	TLZ12-8plus [b] TLZ12D-plus [b]	TLZ12G	TLZ12-8 TLZ12-9 [b]	TLZ61NP [b] TLZ61NP+UC [b]
Contact material / contact gap	$AgSnO_2$ / 0.5 mm	Opto-Triac	$AgSnO_2$ / 0.5 mm	$AgSnO_2$ / 0.5 mm
Spacing of control connections / contact Spacing of control connections C1-C2 or A1-A2 / contact	3 mm 6 mm	3 mm 6 mm	3 mm –	3 mm 6 mm
Test voltage control connection / contact Test voltage C1-C2 or A1-A2 / contact	2000 V 4000 V	– 4000 V	2000 V –	2000 V 4000 V
Rated switching capacity	16 A / 250 V AC	up to 400 W	16 A / 250 V AC	10 A / 250 V AC
Incandescent lamp and halogen lamp load [1] 230 V, I on ≤ 70 A / 10 ms	2300 W	up to 400 W	2000 W TLZ12-9: 2300 W	2000 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA	–	500 VA TLZ12-9: 1000 VA	1000 VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA	up to 400 VA	500 VA	500 VA
Compact fluorescent lamps with EVG* and energy saving lamps ESL	up to 200 W [2]	up to 400 W [2]	up to 100 W [2]	up to 200 W [2]
230 V LED lamps	up to 200 W [2]	up to 400 W [2]	up to 100 W [2]	up to 200 W [2]
Life at rated load, cos φ = 1 or for incandescent lamps 1000 W at 100/h	> 10^5	∞	> 10^5	> 10^5
Life at rated load, cos φ = 0.6 at 100/h	> 4 x 10^4	∞	> 4 x 10^4	> 4 x 10^4
Max. operating cycles	10^3/h	10^3/h	10^3/h	10^3/h
Maximum conductor cross-section (3-fold terminal)	6 mm^2 (4 mm^2)	6 mm^2 (4 mm^2)	6 mm^2 (4 mm^2)	4 mm^2
Two conductors of same cross-section (3-fold terminal)	2.5 mm^2 (1.5 mm^2)	2.5 mm^2 (1.5 mm^2)	2.5 mm^2 (1.5 mm^2)	1.5 mm^2
Screw head	slotted / crosshead, pozidriv	slotted / crosshead, pozidriv	slotted / crosshead, pozidriv	slotted / crosshead
Type of enclosure/terminals	IP50 / IP20	IP50 / IP20	IP50 / IP20	IP30 / IP20
Electronics				
Time on	100 %	100 %	100 %	100 %
Max./min. temperature at mounting location	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C
Standby loss (activ power)	0.7 W; TLZ12D-plus: 0.5 W	0.4 W	0.7 W	0.7 W
Control current local at 230 V (<10 s) ± 20%	5 (100) mA	5 (100) mA	5 (100) mA	5 (100) mA
Control current universal control voltage 8/12/24/230 V (<10 s) ± 20%	2/4/9/5 (100) mA	2/4/9/5 (100) mA	–	2/4/9/5 (100) mA (only TLZ61NP+UC)
Max. parallel capacitance (approx. length) of individual control lead at 230 V AC	0.06 µF (200 m) C1/C2: 0.9 µF (3000 m)	0.9 µF (3000 m)	0.06 µF (200 m)	0.06 µF (200 m) A1-A2: 0.3 µF (1000 m)

* EVG = electronic ballast units; KVG = conventional ballast units

[b] Bistable relay as relay contact. The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.

[1] Applies for lamps with max. 150 W.

[2] Usually applies for dimmable energy saving lamps and dimmable 230 V LED lamps. Due to differences in the lamps electronics, there may be a restriction on the maximum number of lamps; especially if the connected load is very low (for 5 W-LEDs).

Compliance with: EN 61000-6-3, EN 61000-6-1 and EN 60 669. With switch-off early warning function according to DIN18015-2.