

TECHNICAL DATA STAIRCASE TIME SWITCHES



Type	TLZ12-8plus ^{b)} TLZ12D-plus ^{b)}	TLZ12G	TLZ12-8 TLZ12-9 ^{b)}	TLZ61NP ^{b)} TLZ61NP+UC ^{b)}
Contacts				
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	3 mm	3 mm	3 mm	3 mm
Spacing of control connections C1-C2 or A1-A2/contact	6 mm	6 mm	-	6 mm
Test voltage control connection/contact	2000 V	-	2000 V	2000 V
Test voltage C1-C2 or A1-A2/contact	4000 V	4000 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⁾ I on ≤ 120 A/5 ms	up to 400 W ²⁾ I on ≤ 120 A/20 ms	up to 100 W ²⁾ I on ≤ 30 A/20 ms	up to 200 W ²⁾ I on ≤ 120 A/5 ms
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	> 4x10 ⁴	∞	> 4x10 ⁴	> 4x10 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)	0.7W; 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 (nur 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).

To comply with DIN VDE 0100-443 and DIN VDE 0100-534, a Type 2 or Type 3 surge protection device (SPD) must be installed.