



The New Product Range*

| | |
|---|----|
| Selection table for staircase time switches and off-delay timers | D0 |
| Staircase Time Switch TLZ12-8E - The Standard * | D1 |
| Staircase Time Switch TLZ12D - The Allrounder * | D2 |
| Staircase Time Switch TLZ12-230V - The Simple | D3 |
| Staircase Time Switch TLZ12-9E | D4 |
| Staircase Time Switch TLZ61NP * | D5 |
| Off-delay timer NLZ12NP | D6 |
| Off-delay timer NLZ61NP-230V and NLZ61NP-UC | D7 |
| Technical data | D8 |

* Optimised for energy saving lamps ESL

Selection Table

Staircase Time Switches and Off-delay Timers

The new product range

Incandescent lamps are replaced by energy saving lamps ESL*. As the first leading manufacturer of staircase time switches, we produce new devices with optimisation for energy saving lamps.

When these staircase time switches are in ESL setting, the switch-off early warning by flickering function does not reduce the service life of the energy saving lamps. The warning function which prevents sudden darkness fully complies with the stipulations in DIN 18015-2.

In addition, the lighting is immediately switched on again after a power failure if the set time has not yet elapsed, to increase security.

'The Standard' TLZ12-8E-230V+UC replaces the TLZ12NP-230V and TLZ12-8E-230V+8..230V UC.

'The Allrounder' TLZ12D-230V+UC replaces the TLZ12M-230V+8..230V UC.

'The Simple' TLZ12-230V as new device in the range, without switch-off early warning function and without zero passage switching.

| Page | D1 | D2 | D3 | D4 | B3 | D5 | D5 | D6 | D7 | D7 | |
|--|------------------|------------------|----------------|------------|-------------------|---|--------------|-----------------|-----------------|--------------|------------|
|  | picograms | TLZ12-8E-230V+UC | TLZ12D-230V+UC | TLZ12-230V | TLZ12-9E-230V | EUD12D-UC if the function TLZ is set | TLZ61NP-230V | TLZ61NP-230V+UC | NLZ12NP-230V+UC | NLZ61NP-230V | NLZ61NP-UC |
| Modular device for mounting on DIN rail EN 60715 TH35, number of modules 18mm each | 1 | 1 | 1 | 1 | 1 | | | 1 | | | |
| Built-in device for installation (e.g. flush-mounting box) | | | | | | | ■ | ■ | | ■ | |
| Incandescent lamp load W | 2300 | 2300 | 2000 | 2300 | 400 ³⁾ | 2000 | 2000 | 2300 | 2000 | 2000 | |
| Optimised function for energy saving lamps ESL | ■ | ■ | | | | ■ | ■ | | | | |
| Switch-off early warning function switchable ¹⁾ | ■ | ■ | | ■ | ■ ⁴⁾ | ■ | ■ | | | | |
| Variable time range up to | 30 min | 99 min | 12 min | 12 min | 9 min | 12 min | 12 min | ■ | ■ | ■ | |
| Low standby loss  | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| 230 V control voltage | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | | |
| Universal control voltage (additionally) 8 to 230 V UC  | ■ | ■ | | | | ■ | | ■ | | ■ | |
| Glow lamp current mA  | 50 | 50 | 50 | 50 | 5 | 50 | 50 | | | | |
| Double connections push-button and lamp | ■ | | | | | | | | | | |
| Single connections below | | | | ■ | | | | | | | |
| Automatic detection 3-/4-wire circuit | ■ | ■ | ■ | | | ■ | ■ | | | | |
| 3-wire circuit, without attic lighting | | | | ■ | | | | | | | |
| 4-wire circuit | | | | | ■ | | | | | | |
| Resettable | ■ | ■ | ■ | | ■ | ■ | ■ | | | | |
| Permanent light and switch-off logics with push-button switchable | ■ | ■ | | | ■ | ■ | ■ | | | | |
| Incrementing ²⁾ | ■ | ■ | | | ■ | ■ | ■ | | | | |
| Separate switch for permanent light | ■ | ■ | ■ | ■ | | | | ■ | | | |
| Additional input for motion control | | ■ | | | | | | | | | |
| With multifunction: TLZ, ESV, ES and ER  | ■ | ■ | | | ■ | without ER | without ER | | | | |
| Zero passage switching  | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | | ■ | |

* ESL = abbr. for energy saving lamps

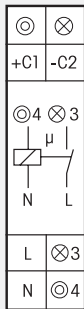
¹⁾ As stipulated in DIN 18015-2 under 4.3.3 the following should be taken into account: For lighting systems in stairwells of multiple dwellings it is recommended to use staircase time switches with switch-off early warning function to prevent sudden darkness. If the switch-off early warning function is switched on the light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

²⁾ Time can be extended: Within the first second after switching on or resetting the time can be extended by pressing the push-button repeatedly up to three times (incrementing). Each operation increments the set time once.

³⁾ Up to 3400 W with capacity enhancer LUD12-230V.

⁴⁾ Switch off early warning function through dimming.

TLZ12-8E-230 V+UC



1 NO contact not potential free 16 A/250 V AC. Incandescent lamps up to 2300 W, energy saving lamps ESL up to 200W. Switch-off early warning and permanent light by push-button switchable. Standby loss 0.5 watt only. With ESL optimisation and multifunction.

Modular device for DIN EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.

Zero passage switching to protect contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

Control voltage, supply voltage and switching voltage 230 V. In addition electrically isolated universal voltage from 8 to 230 V UC.

Glow lamp current up to 50 mA, dependent on the ignition voltage of the glow lamps.

Precise variable time range from 1 to 30 minutes, settable by minute scale.

Permanent light switch with the big rotary switch.

3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.

Automatic detection of the method of connection.

If the function TL is set, the lighting is switched on again after a power failure provided the set time has not yet elapsed.

With double connections for push-button and lamp in order to connect either above or below or only below.

If switch-off early warning function is switched on, the light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

If permanent light by push-button is switched on, permanent light can be switched on by pressing the push-button longer than 1 second. This is switched off automatically after 60 minutes or by pressing the push-button longer than 2 seconds.

If both switch-off early warning function and permanent light by push-button are switched on, the switch-off early warning function is activated before the permanent light switches off.

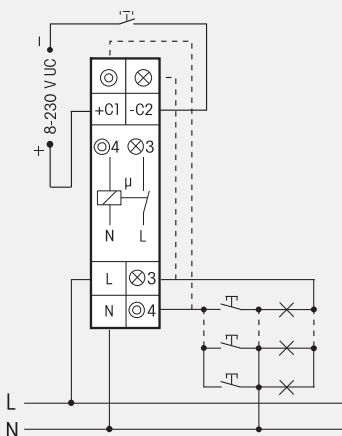
When energy saving lamps ESL are completely or partially switched, then set the switch-off early warning and the permanent light by push-button on the right hand side of the rotary switch.

If the function TL is selected **the time can be extended** within the first second after switching on or resetting **by pressing the push-button repeatedly up to three times** (incrementing). Each momentary-contact control increments the set time once.

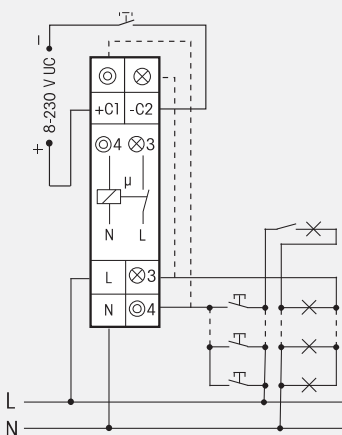
With multifunction: The following functions can be selected optionally: **ES** (impulse switch), **ER** (relay), **ESV** (impulse switch with release delay).

If the function ESV is set the time ranges (t), which can be set with the middle rotary switch are as follows: 1 = 2 min, 2 = 5 min, 3 = 10 min, 4 = 15 min, 6 = 25 min, 8 = 35 min, 10 = 45 min, 12 = 60 min, 20 = 90 min, 30 = 120 min. In this function the impulse switch automatically disconnects after the set delay is timed out, if a manual OFF command has not been given. Switch-off early warning and permanent light by push-button can also be switched on in this position. Forgotten permanent light is switched off after 2 hours.

Typical connections

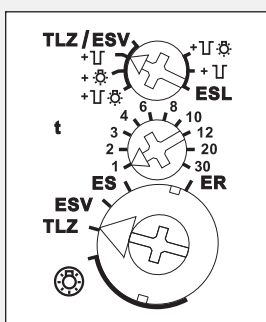


3-wire circuit, resettable



4-wire circuit with attic lighting, resettable

Function rotary switches



TLZ = Switch-off early warning function

ESL = Permanent light by push-button

TLZ ESL = Switch-off early warning function and permanent light by push-button

ESL = Permanent light switched on (all click-stop positions)

TLZ/ESV/ES/ER = The set function is active

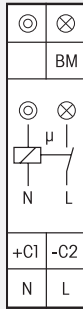
Technical data page D8.

Housing for operating instructions GBA12 page Z5.

Digital settable Staircase Time Switch TLZ12D

The Allrounder

TLZ12D-230V+UC



1 NO contact not potential free 16A/250V AC. Incandescent lamps up to 2300W, energy saving lamps ESL up to 200W. Switch-off early warning and permanent light by push-button switchable. Standby loss 0.5 watt only. With ESL optimisation and multifunction.

Modular device for DIN EN 60715 TH35 rail mounting.
1 module = 18mm wide, 58mm deep.

The functions and times are entered using the MODE and SET keys as described in the operating manual and indicated on the LC display. A keylock function is provided.

Zero passage switching to protect contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

230V input that allows a **glow lamp current up to 50 mA**, dependent on the ignition voltage of the glow lamps. 230V supply voltage and switching voltage. In addition electrically isolated universal voltage from 8 to 230V UC.

Extremely low switching noise. Precise variable time range from 1 to 99 minutes.

Separate Permanent light switch with the projecting key SET if the functions STS, ISO, IS or R are set.

With motion detector control input BM, which converts the input signal into a control impulse if the function STS is set. In this case the permanent light by push-button function is not active. 3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.

Automatic detection of the method of connection.

If the function STS is set, the lighting is switched on again after a power failure provided the set time has not yet elapsed.

The elapsed period is shown in the middle of the display. The set time flashes at the bottom edge of the display until the set period elapses. **The accrued switch-on time** is displayed there outside the elapsed time, first in hours (h), then in months (m) with 1 digit after the decimal point.

When the set time flashes but the elapsed time does not change, a control push-button is inhibited.

If switch-off early warning function is switched on, the light starts flickering in time variable from 10 to 50 seconds before time-out and is repeated three times at decreasing time intervals.

If permanent light by push-button is switched on, permanent light can be switched on by pressing the push-button longer than 1 second. This is switched off automatically after time variable from 0.5 to 10 hours or by pressing the push-button longer than 2 seconds.

This function is not active at the BM input.

If both switch-off early warning function and permanent light by push-button are switched on, the switch-off early warning function is activated before the permanent light switches off.

If energy saving lamps are switched completely or partially, activate position 'ESL' in the menu guidance. This is indicated by a + sign next to the abbreviation for the function at the top of the display.

If the function STS is selected **the time can be extended** within the first second after switching on or resetting by **pressing the push-button repeatedly up to three times** (incrementing). Each momentary-contact control increments the set time once. This function is not active at the BM input.

With multifunction: Switchable to the functions **IS** (impulse switch), **R** (relay), **ISO** (impulse switch with off-delay) and **HC** (hour counter, see also digital adjustable operating hours impulse counter BZR12DDX on page G1). After setting the required function, the function can be blocked. An arrow on the right of the abbreviation indicates the blocking status.

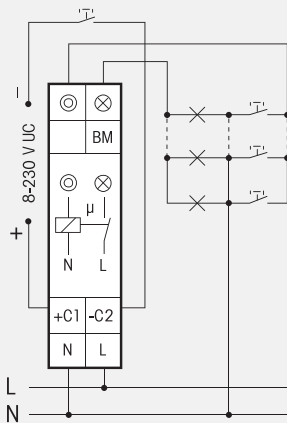
ISO: The impulse switch automatically disconnects after the set delay from 0.1 to 9.9 hours is timed out, provided there is no manual OFF command. Switch-off early warning, permanent light by push-button and ESL are also switchable if the function ISO is set.

HC: As long as the push-button input is excited, the + sign is indicated next to the abbreviation for the function HC at the top of the display. The time is added and indicated at the bottom of the display. Initially up to 9999 hours (h), then automatic change-over to months (m) each with 730 hours and display with 1 digit after the decimal point. The relay is not switched on if the function HC is set.

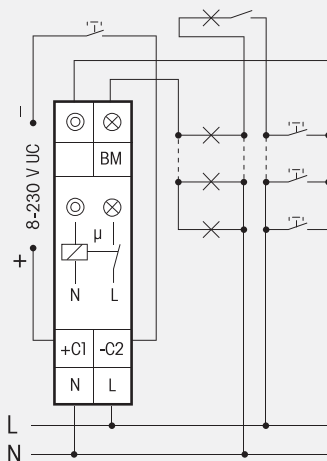
Menu guidance with selectable languages German, English or French as described in the attached operating instructions. Also visit www.eltako-ba.de.

Technical data page D8. Housing for operating instructions GBA12 page Z5.

Typical connections



3-wire circuit, resettable



4-wire circuit with attic lighting, resettable

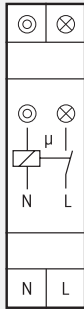
TLZ12D-230V+UC

1 NO 16A

EAN 4010312400760

Recommended retail prices excluding VAT.

TLZ12-230V



1 NO contact not potential free 16 A/250 V AC.
Incandescent lamps up to 2000W, energy saving lamps ESL up to 100W, without switch-off early warning. Standby loss 0.7 watt only.

Modular device for DIN EN 60715 TH35 rail mounting.
 1 module = 18 mm wide, 58 mm deep.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

230V control voltage, supply voltage and switching voltage.

Extremely low switching noise.

Variable time range from approx. 0.2 to 12 minutes.

Glow lamp current up to 50 mA, dependent on the ignition voltage of the glow lamps.

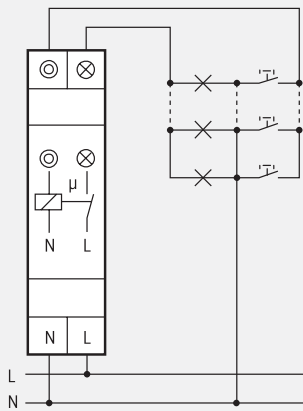
Own permanent light switch with the big rotary switch.

3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.

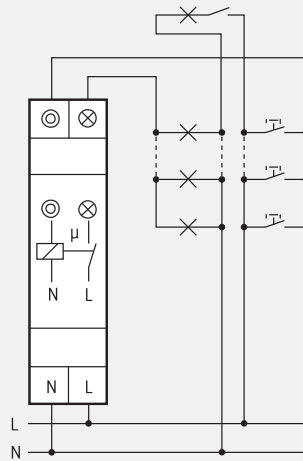
Automatic detection of the method of connection.

Without switch-off early warning function and without zero passage switching.

Typical connections

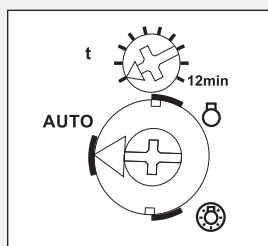


3-wire circuit, resettable



4-wire circuit with attic lighting, resettable

Function rotary switches



= Function switched off

= Permanent light switched on

AUTO = The set function is active

Technical data page D8.

Housing for operating instructions GBA12 page Z5.

D3

TLZ12-230V

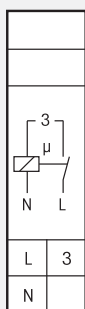
1 NO 16A

EAN 4010312400142

Recommended retail prices excluding VAT.

Staircase Time Switch TLZ12-9E

TLZ12-9E-230V



1 NO contact not potential free 16 A/250 V AC.
Incandescent lamps up to 2300 W, energy saving lamps ESL up to 100 W.
Switch-off early warning switchable. Standby loss 0.5 watt only.

Modular device for DIN EN 60715 TH35 rail mounting.
 1 module = 18 mm wide, 58 mm deep.

Zero passage switching to protect contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

230V control voltage, supply voltage and switching voltage.

Glow lamp current up to 50 mA, dependent on the ignition voltage of the glow lamps.

Precise variable time range from 1 to 12 minutes, settable by minute scale.

Own permanent light switch with the big rotary switch.

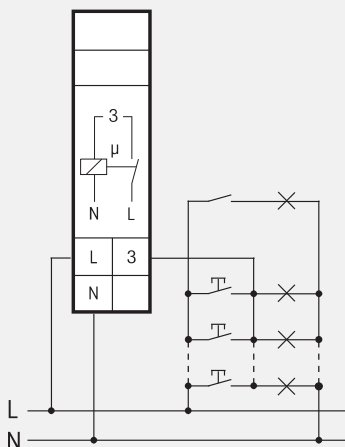
3-wire circuit with attic lighting, not resettable. Only for retrofitting existing systems.

After a power failure the lighting is switched on again in case the set time has not elapsed yet.

If switch-off early warning function is switched on, the light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

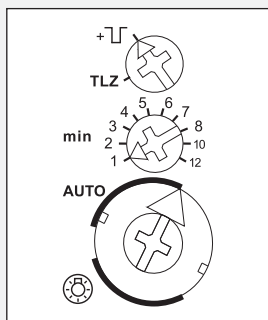
The noiseless electronics is not even audible to a highly sensitive ear - unlike many synchronous motors with mechanical gearboxes.

Typical connection



3-wire circuit with attic lighting, not resettable

Function rotary switches



- = Switch-off early warning function
- = Permanent light switched on (all click-stop positions)
- AUTO = The set function is active (all click-stop positions)

Technical data page D8.

Housing for operating instructions GBA12 page Z5.

TLZ12-9E-230V

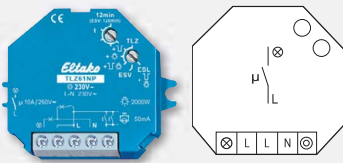
1 NO 16A

EAN 4010312400715

Recommended retail prices excluding VAT.

D4

TLZ61NP-230 V



1 NO contact not potential free 10A/250V AC. Incandescent lamps up to 2000 W, energy saving lamps ESL up to 200W. Switch-off early warning and permanent light by push-button switchable. Standby loss 0.7 watt only. With ESL optimisation.

Built-in device for installation. 45 mm long, 55 mm wide, 18 mm deep.

Zero passage switching to protect contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

By using a bistable relay coil power loss and heating is avoided even in the on mode.

The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.

230V control voltage, supply voltage and switching voltage. With infinitely variable time range from 1 to 12 minutes. 50mA glow lamp current, dependent on the ignition voltage of the glow lamps.

3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.

Automatic detection of the method of connection.

After a power failure the lighting is switched on again in case the set time has not elapsed yet.

If switch-off early warning function \square is switched on, the light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

If permanent light by push-button \odot is switched on, permanent light can be switched on by pressing the push-button longer than 1 second. This is switched off automatically after 60 minutes or by pressing the push-button longer than 2 seconds.

If both switch-off early warning function and permanent light by push-button $\odot \square$ are switched on, the switch-off early warning function is activated before the permanent light switches off.

When energy saving lamps ESL are completely or partially switched, then set the switch-off early warning with the push-button permanent light ESL on the lower rotary switch.

If the function TLZ is selected the **time** can be **extended** within the first second after switching on or resetting by pressing the push-button repeatedly up to three times (incrementing).

Each momentary-contact control increments the set time once.

The function **ESV**, impulse switch with release delay up to 120 minutes, can be selected optionally. If this function is set it is automatically disconnected after the set delay is timed out if a manual OFF command has not been given.

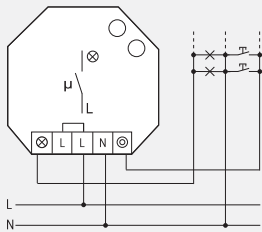
If the timing period is set to minimum in the function **ESV**, the release delay is switched off.

The standard impulse switch function **ES** is then set.

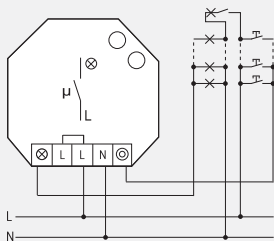
\square = Switch-off early warning function; \odot = Permanent light by push-button;

$\odot \square$ = Switch-off early warning function and permanent light by push-button

Typical connection

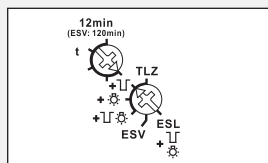


3-wire circuit, resettable



4-wire circuit with attic lighting, resettable

Function rotary switches



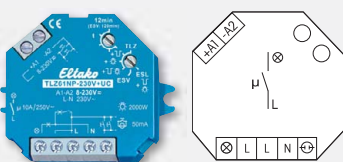
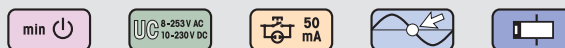
Technical data page D8. Short-stroke pushbuttons page Z1-Z3.

TLZ61NP-230V

1 NO 10A

EAN 4010312400791

TLZ61NP-230 V+UC



1 NO contact not potential free 10A/250V AC. Incandescent lamps up to 2000 W, energy saving lamps ESL up to 200W. Switch-off early warning and permanent light by push-button switchable. Standby loss 0.7 watt only. With ESL optimisation.

Built-in device for installation. 45 mm long, 55 mm wide, 18 mm deep.

Control voltage, supply voltage and switching voltage 230V. In addition electrically isolated universal voltage from 8 to 230V UC.

Push-buttons with a glow lamp current up to 50mA, dependent on the ignition voltage of the glow lamps, can be connected to the control input \ominus .

All functions same as type TLZ61NP-230 V.

Typical connection

same as type TLZ61NP-230V, but with universal control voltage input +A1/-A2 additionally

Function rotary switches

same as type TLZ61NP-230V

Technical data page D8. Short-stroke pushbuttons page Z1-Z3.

TLZ61NP-230V+UC

1 NO 10A

EAN 4010312400739

The fresh air professionals

Fresh air in the bathroom with the professional off-delay timers NLZ, also known as off-delay relay. Accurate timing is self-evident for this electronic device as well as noiseless operation.

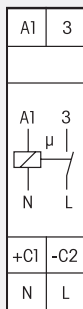
The off-delay timers with universal voltage offer additional applications as here even different potentials for switch and fan can be applied.

The NP types have a settable operate delay up to 12 minutes.

NLZ12NP-230V+UC



D6



1 NO contact not potential free 16 A/250 V AC. Standby loss 0.5 watt only.

Modular device for DIN EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.

Zero passage switching to protect contacts and consumers.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

230V control voltage and additionally 8 to 230 V UC electrically isolated universal control voltage. 230V supply voltage and switching voltage.

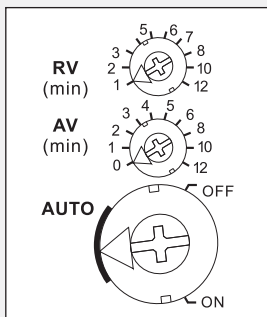
Very low switching noise.

Off-delay time settable from 1 to 12 min with the top rotary switch. Operating delay settable from 0 to 12 minutes with the middle rotary switch. Permanent ON and permanent OFF with the bottom rotary switch.

Function: When the control contact (light switch) is closed the operate delay AV starts (if not set '0 minutes'), on time-out the fan is switched on. The set release delay RV (delay time) starts when the control contact opens and if a set operating delay has elapsed. The fan switches off on time-out.

This off-delay timer can be controlled by all dimmer switches EUD12 and EUD61 even in the minimum dimming position.

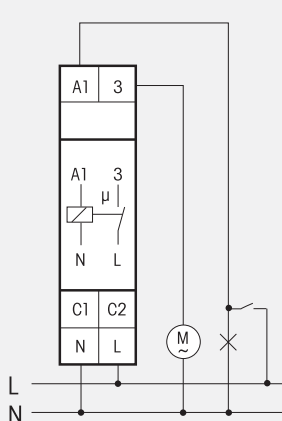
Function rotary switches



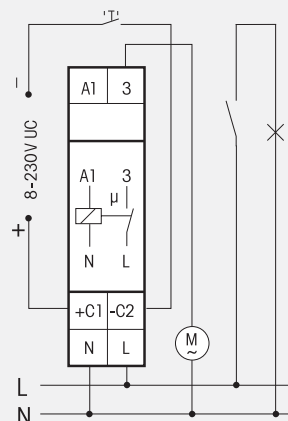
RV = release delay (delay time)

AV = operating delay

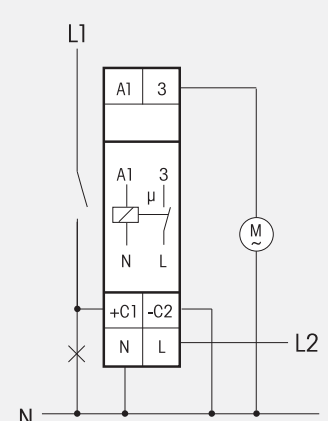
Typical connections



Fan control through light switch



Fan control through ultra low voltage door contact, light is controlled separately



Fan control through light switch in case of different potentials on switch and fan

Technical data page D8. Housing for operating instructions GBA12 page Z5.

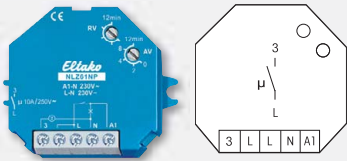
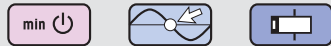
NLZ12NP-230V+8..230V UC

1 NO 16A

EAN 4010312602911

Recommended retail prices excluding VAT.

NLZ61NP-230V



1 NO contact not potential free 10A/250V AC. Standby loss 0.7 watt only.

Built-in device for installation. 45 mm long, 55 mm wide, 18 mm deep.

Zero passage switching to protect contacts and consumers.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

230V control voltage, supply voltage and switching voltage.

By using a bistable relay coil power loss and heating is avoided even in the on mode.

The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.

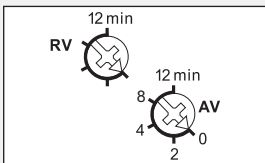
The top rotary switch varies the off-delay time from 1 to 12 minutes.

Operating delay settable from 0 to 12 minutes with the lower rotary switch.

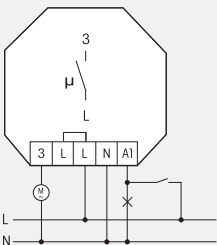
Function: When the control contact (light switch) is closed the operating delay AV starts (if not set '0 minutes'), on time-out the fan is switched on. The set release delay RV (delay time) starts when the control contact opens and if a set operating delay has elapsed. The fan switches off on time-out.

This off-delay timer can be controlled by all dimmer switches EUD12 and EUD61 even in the minimum dimming position.

Function rotary switches



Typical connections



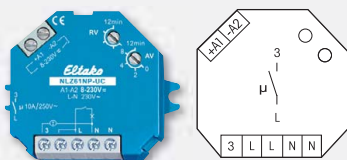
Technical data page D8. Short-stroke pushbuttons page Z1-Z3.

NLZ61NP-230V

1 NO 10A

EAN 4010312603185

NLZ61NP-UC



1 NO contact not potential free 10A/250V AC. Standby loss 0.7 watt only.

Built-in device for installation. 45 mm long, 55 mm wide, 18 mm deep.

Zero passage switching to protect contacts and consumers.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

8 to 230V UC universal control voltage, electrically isolated from the 230V supply voltage and switching voltage.

By using a bistable relay coil power loss and heating is avoided even in the on mode.

The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.

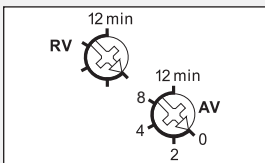
The top rotary switch varies the off-delay time from 1 to 12 minutes.

Operating delay settable from 0 to 12 minutes with the lower rotary switch.

Function: When the control contact (light switch) is closed the operating delay AV starts (if not set '0 minutes'), on time-out the fan is switched on. The set release delay RV (delay time) starts when the control contact opens and if a set operating delay has elapsed. The fan switches off on time-out.

This off-delay timer can be controlled by all dimmer switches EUD12 and EUD61 even in the minimum dimming position.

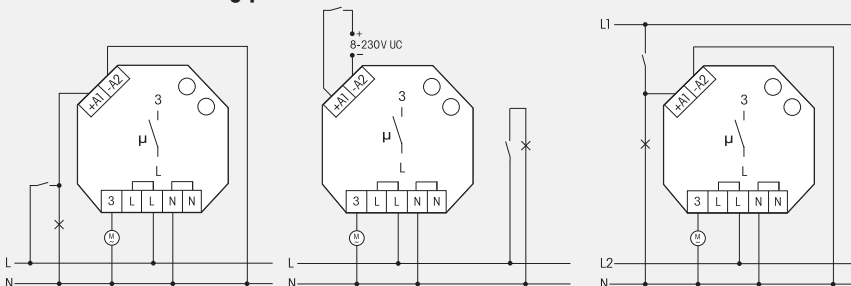
Function rotary switches



RV = release delay
(off-delay time)

AV = operating delay

Typical connections



Fan control through light switch

Fan control through ultra low voltage door contact, light is controlled separately

Fan control through light switch in case of different potentials on switch and fan

Technical data page D8. Short-stroke pushbuttons page Z1-Z3.

NLZ61NP-UC

1 NO 10A

EAN 4010312603048

D7

Technical Data

Staircase Time Switches and Off-delay Timers

D8

| | TLZ12D TLZ12-8E NLZ12NP | TLZ12-230 V TLZ12-9E | TLZ61NP ^{b)} NLZ61NP-230 V NLZ61NP-UC |
|--|---|---|---|
| Contacts | | | |
| Contact material / contact gap | AgSnO ₂ /0.5 mm | 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 - | 3 mm 6 mm |
| Test voltage control connection/contact Test voltage C1-C2 or A1-A2/contact | 2000 V 4000 V | 2000 V - | 2000 V 4000 V |
| Rated switching capacity | 16 A/250 V AC | 16 A/250 V AC | 10 A/250 V AC |
| Incandescent lamp and halogen lamp load ¹⁾ 230 V | 2300 W | 2300 W; TLZ12-230V: 2000 W | 2000 W |
| Fluorescent lamp load with KVG* in lead-lag circuit or non compensated | 1000 VA | 1000 VA; TLZ12-230V: 500 VA | 1000 VA |
| Fluorescent lamp load with KVG* shunt-compensated or with EVG* | 500 VA | 500 VA | 500 VA |
| Compact fluorescent lamps with EVG* and energy saving lamps ESL | 15 x 7 W 10 x 20 W | 7 x 7 W 5 x 20 W | 15 x 7 W 10 x 20 W |
| 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 |
| Maximum conductor cross-section (3-fold terminal) | 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) | 1.5 mm ² |
| Screw head | slotted / crosshead, pozidriv | slotted / crosshead, pozidriv | slotted / crosshead |
| Type of enclosure/terminals | IP50/IP20 | IP50/IP20 | IP30/IP20 |
| Electronics | | | |
| Time on | 100 % | 100 % | 100 % |
| Max./min. temperature at mounting location | +50°C/-20°C | +50°C/-20°C | +50°C/-20°C |
| Standby loss (activ power) | 0.5 W | 0.5 W; TLZ12-230V: 0.7 W | 0.7 W |
| Control current local at 230V (<10 s) ± 20% | 5 (100) mA, NLZ12NP: 2 mA | 5 (100) mA | 5 (100) mA; NLZ61NP-230V: 1 mA |
| Control current universal control voltage 8/12/24/230V (<10 s) ± 20% | 2/4/9/5 (100) mA | - | 2/4/9/5 (100) mA |
| 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) | 0.06 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.