THE HOME OF INNOVATION.

Eltako

THE SUCCESSFUL

LEARN MORE ABOUT OUR TIME RELAYS, TIME SWITCHES AND STAIRCASE TIME SWITCHES AND HOW TO AUTOMATE YOUR HOME.

Eltako

PROFESSIONAL STANDARD

CONTENT

MFZ12DDX
MFZ12NP
MFZ12DX
MFZ61DX

STAY SITTING AND PUT YOUR FEET UP, OUR TIME RELAYS AND OUR TIME CLOCK AUTOMATE ALL POSSIBLE ELECTRICAL LOADS.

WHAT MAKES OUR TIME RELAYS SO SUCCESSFUL?

They show you the way to the front door in the evening by turning on the lights when it gets dark.
They wake you up in the morning with the first rays of the sun by raising your shading elements.
They switch on your fairy lights so that you can enjoy a great atmosphere during a cozy evening watching TV.
They turn down the lighting and shade by themselves when everyone is already in bed.
So the question is more like: what can our time relays not do?

In this portfolio you can find out more about the individual products.

THE SUCCESSFUL

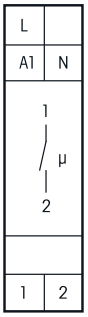
Multifunction time relays with up to 18 functions combined with universal control voltage 8 to 230 V UC - a competitive advantage, particularly the digital settable time relays MFZ12DDX.

Multifunction time relays always switch at zero passage, the DX devices only when connected to N.

Page		5	6	7	8	9	10	11	12	13	14	15
	pictograms	MFZ12-230V	MFZ12DX-UC	MFZ12DDX-UC	MFZ12NP-230V+UC	MFZ12PMD-UC	MFZ61DX-UC	A2Z12-UC	AVZ12DX-UC	EAW12DX-UC	RVZ12DX-UC	TGI12DX-UC
Modular device for mounting on DIN rail EN 60715 TH35, number of modules 18 mm each		1	1	1	1	1		1	1	1	1	1
Built-in device for installation (e.g. flush-mounting box)							■					
Digital settable				■		■						
Analogue settable		■	■		■		■	■	■	■	■	■
Number of NO contacts (not potential free)		1			(1)	(1)	1	1+1				
Number of CO contacts potential free			1	1					1	1	1	1
Zero passage switching			■ [3]	■ [3]	■	■	■ [3]		■ [3]	■ [3]	■ [3]	■ [3]
Switching capacity 16 A/250 V AC					■							
Switching capacity 10 A/250 V AC		■	■	■			■	■	■	■	■	■
Incandescent lamp load W		1000	2000	2000	2300	400 [1]	2000	1000	2000	2000	2000	2000
Bistable relay as relay contact		■ [2]	■ [2]	■ [2]			■ [2]	■ [2]	■ [2]	■ [2]	■ [2]	■ [2]
Universal control voltage	UC		■	■	■	■	■	■	■	■	■	■
Low standby loss	MIN	■	■	■	■	■	■	■	■	■	■	■
Multifunction time relay		■	■	■	■	■	■					
Off delay RV		■	■	■	■	■	■				■	
Operate delay AV		■	■	■	■	■	■		■			
Additive operate delay AV+			■	■		■						
2-stage ON-delay								■				
Fleeting NO contact EW		■	■	■	■	■	■			■		
Fleeting NC contact AW		■	■	■	■	■	■			■		
Fleeting NO contact and fleeting NC contact EAW			■	■		■				■		
Operate and release delay ARV		■	■	■	■	■						
Additive operate and release delay ARV+			■	■		■						
Relay function ER			■	■		■						
Release-delay impulse switch SRV			■	■		■						
Impulse switch functions ES and ESV			■	■		■						
Clock generator starting with impulse TI		■	■	■	■	■	■					■
Clock generator starting with pause TP		■	■	■	■	■						
Impulse controlled operate delay IA (e.g. automatic door opener)		■	■	■	■	■	■					
Pulse shaper IF			■	■		■						

[1] Up to 3400 W with capacity enhancers LUD12-230V. [2] The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.
[3] Duplex technology: When switched with 230 V/50 Hz zero passsage switching is activated if L is connected to (L) and N to (N). Then additional standby loss of only 0.1 watt.

ANALOGUE SETTABLE MULTIFUNCTION TIME RELAY MFZ12-230V WITH 10 FUNCTIONS



MFZ12-230V

1 NO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 1000 W*. Standby loss 0.4 watt only.

Modular device for DIN-EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
Control voltage 230 V. Supply voltage same as control voltage.
Time setting between 0.1 second and 40 hours.

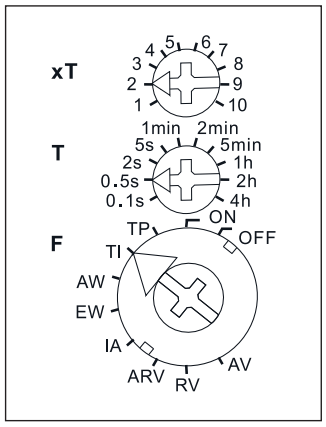
Functions F (description page18)

RV = off delay
AV = operate delay
TI = clock generator starting with impulse
TP = clock generator starting with pause
IA = impulse controlled operate delay (e.g. automatic door opener)
EW = fleeting NO contact
AW = fleeting NC contact
ARV = operate and release delay
ON = permanent ON
OFF = permanent OFF

The LED below the big rotary switch indicates the contact position while time-out is in progress. It blinks while the relay contact is open, and is continuously ON as long as the relay contact is closed.
The time base T is selected by means of the middle, latching rotary switch **T.** Time-base figures available are 0.1 seconds, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes, 5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the timebase by the multiplier.
The multiplier xT is set on the upper, latching rotary switch **xT** and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 second (time base 0.1 second and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

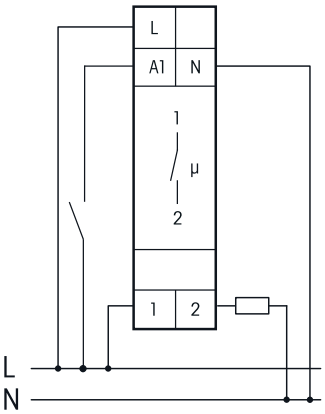
* The maximum load can be used starting at a delay time or clock cycle of 5 minutes.
The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

Function rotary switches



Standard setting ex works.

Typical connection

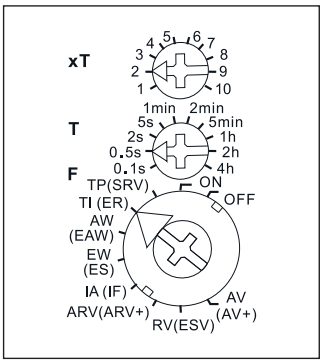


MFZ12-230V	1 NO contact 10 A	EAN 4010312603147	**50,90 €/pc.**

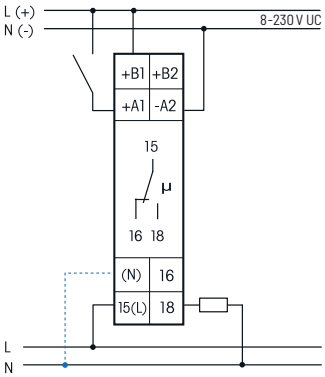
Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

Recommended retail prices excluding VAT.

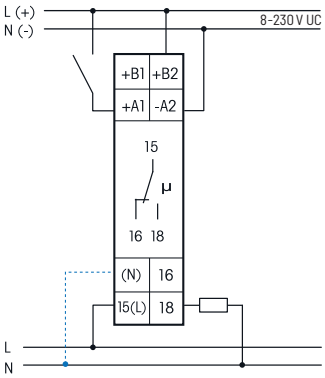
Function rotary switches



Typical connection
Level of setting 1, Functions F



Typical connection
Level of setting 2, Functions (F)



If N is connected, the zero passage switching is active.

Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

MFZ12DX-UC

1 CO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.02–0.6 watt only.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.
With the patented Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 15 (L) for this. This gives an additional standby consumption of only 0.1 Watt.
Universal control voltage from 8 to 230 V UC. Supply voltage same as control voltage.
Time setting between 0.1 second and 40 hours.
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.
According to the connection of the power supply to the terminals B1-A2 or B2-A2 **two different levels of settings** can be selected:

Functions F with connection of the power supply to B1-A2 (description page 18)
(Standby loss 0.02-0.4 W)
RV = off delay
AV = operate delay
TI = clock generator starting with impulse
TP = clock generator starting with pause
IA = impulse controlled operate delay (e.g. automatic door opener)
EW = fleeting NO contact
AW = fleeting NC contact
ARV = operate and release delay
ON = permanent ON
OFF = permanent OFF

Functions (F) with connection of the power supply to B2-A2 (description page 18)
(Standby loss 0.02-0.6 W)
SRV = release-delay impulse switch
ER = relay
EAW = fleeting NO contact and fleeting NC contact
ES = impulse switch
IF = pulse shaper
ARV+ = additive operate and release delay
ESV = impulse switch with release delay and switch-off early-warning function
AV+ = additive operate delay
ON = permanent ON
OFF = permanent OFF

The LED below the big rotary switch indicates the contact position while time-out is in progress. It blinks while the relay contact 15-18 is open (15-16 closed), and is continuously ON as long as the relay contact 15-18 is closed (15-16 open).
The time base T is selected by means of the middle, latching rotary switch **T.** Time-base figures available are 0.1 seconds, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes, 5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the timebase by the multiplier.
The multiplier xT is set on the upper, latching rotary switch **xT** and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 second (time base 0.1 second and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

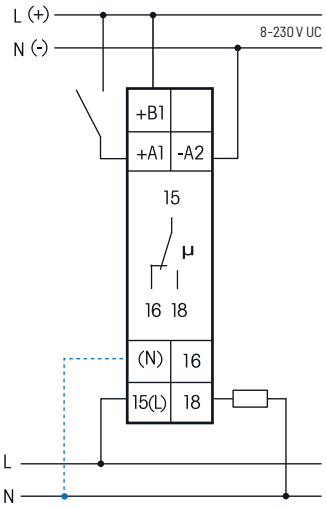
* The maximum load can be used starting at a delay time or clock cycle of 5 minutes.
The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

MFZ12DX-UC	1 CO contact 10 A	EAN 4010312603086	**62,70 €/pc.**

Recommended retail prices excluding VAT.

DIGITAL SETTABLE MULTIFUNCTION TIME RELAY
MFZ12DDX-UC WITH 18 FUNCTIONS

Typical connection



If N is connected, the zero passage switching is active.

Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

MFZ12DDX-UC

1 CO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.05–0.5 watt only.

Modular device for DIN-EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
With the patented Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 15 (L) for this. This gives an additional standby consumption of only 0.1 Watt.
Universal control voltage 8 to 230 V UC. Supply voltage same as the control voltage.
Both functions and times are entered at the touch of a key and indicated digitally on an LC display.
Only two keys are required for this purpose.
When setting the time all values can be entered within preset time ranges (0.1 to 9.9 or 1 to 99 seconds, minutes or hours). The longest possible setting is 99 hours. 600 settings are possible. The time setting is continuously displayed digitally.
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.
Functions (description page 18)

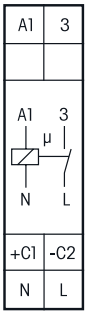
RV = off delay
AV = operate delay
AV+ = operate delay additive
TI = clock generator starting with impulse
TP = clock generator starting with pause
IA = impulse controlled pickup delay (e.g. automatic door opener)
IF = pulse shaper
EW = fleeting NO contact
AW = fleeting NC contact
EAW = fleeting NO contact and fleeting NC contact
ARV = operate and release delay
ARV+ = operate and release delay additive
ES = impulse switch
SRV = release-delay impulse switch
ESV = impulse switch with release delay and switch-off early-warning function
ER = relay
ON = permanent ON
OFF = permanent OFF

With TI, TP, IA, EAW, ARV and ARV+ functions, a different second time can be entered also with different time ranges.
Setting the times and functions: The LCD component to be changed is selected by pressing the MODE key. The component accessed flashes. Press the SET key to change the component accessed. This may be the function, the time ranges, time T1 or time T2 (on TI, TP, IA, EAW, ARV and ARV+ only). Pressing the MODE key terminates each input. Once the time has been set with MODE, no more components are flashing. The timing relay is now ready to operate. Press the MODE key again to restart the input cycle. All the entered parameters are retained if they are not changed using SET. 25 sec. after the last operation and if the component still flashes the input cycle is automatically terminated and the previously made changes lapse.
Functions of the LC display: If the ON or OFF function was selected, no time is displayed, only ON and OFF and a contact symbol in the correct position. On all other functions, the set time, the function code and the contact symbol are shown in the correct position (open or closed).The clock symbol flashes while the set time is elapsing and the remaining time is shown.
Safety in the event of a power failure: The set parameters are stored in an EEPROM and are therefore immediately available again when the power supply is restored after a power failure.

* The maximum load can be used starting at a delay time or clock cycle of 5 minutes.
The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

MFZ12DDX-UC	1 CO contact 10 A	EAN 4010312603079	**60,90 €/pc.**

Recommended retail prices excluding VAT.



MFZ12NP-230V+UC

1 NO contact not potential free 16 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2300 W*. 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.
230 V control voltage and additionally 8 to 230 V UC electrically isolated universal control voltage.
230 V supply voltage and switching voltage.
Very low switching noise.
Time settings between 0.1 seconds and 40 hours.

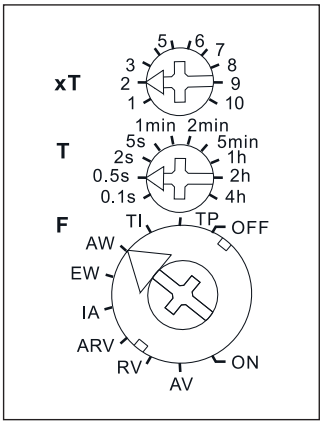
Functions F (description page 18)
RV = release delay
AV = operate delay
TI = clock generator starting with impulse
TP = clock generator starting with pause
IA = impulse-controlled operate delay
EW = fleeting NO contact
AW = fleeting NC contact
ARV = operate and release delay
ON = permanent ON
OFF = permanent OFF

The LED below the upper function rotary switch informs about the position of the contact during the countdown. It blinks while the contact is open and stays on as long as the contact is closed.
The time base T is selected by means of the middle, latching rotary switch **T.** Time-base figures available are 0.1 second, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes, 5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the time base by the multiplier.
The multiplier xT is set on the upper, latching rotary switch **xT** and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 second (time base 0.1 second and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

* The maximum load can be used starting at a delay time or clock cycle of 5 minutes.
The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

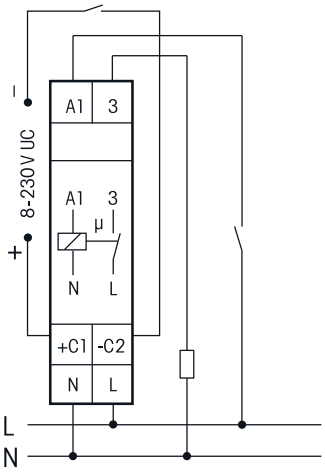
MFZ12NP-230V+UC	1 NO contact 16 A	EAN 4010312602935	**51,40 €/pc.**

Function rotary switches



Standard setting ex works.

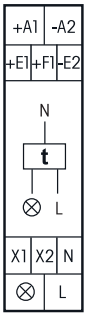
Typical connection



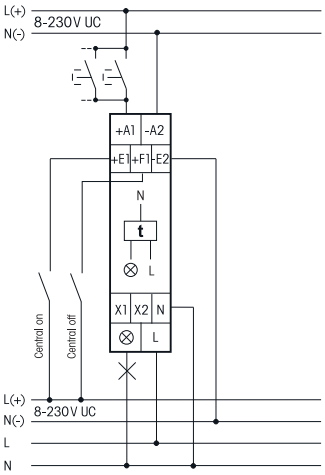
Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

Recommended retail prices excluding VAT.

FULLY ELECTRONIC MULTIFUNCTION TIME RELAY MFZ12PMD-UC WITH 18 FUNCTIONS



Typical connection



Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

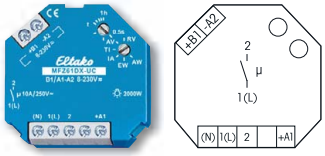
MFZ12PMD-UC

Power MOSFET with almost unlimited number of circuits up to 400 W. Automatic lamp detection. Standby loss 0.3 watt only. Dim down to minimum brightness and up to maximum brightness and Soft ON / Soft OFF are also adjustable for lamp circuit.

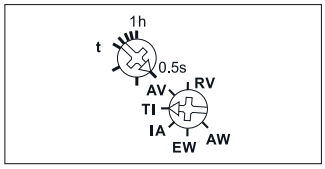
Modular device for DIN EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.
Digitally adjustable and fully electronic multifunction time relay for lamps up to 400 W dependent on ventilation conditions. Dimmable 230V LED lamps and dimmable energy saving lamps (ESL) are also dependent on the lamp electronics and the dimming technology, **see technical data page 13-17.**
If **minimum brightness** is not set to 0, the circuit is not switched off but dimmed down to the set percentage.
Up to 3600 W with capacity enhancers LUD12-230V (description page 9-7) at the terminals X1 and X2.
Universal control voltage 8 to 230 V UC and additionally the universal voltage control inputs 8 to 230 V UC central ON and central OFF. The control inputs are electrically isolated from the supply voltage and switching voltage.
Zero passage switching to protect lamps.
Glow lamp current up to 5 mA starting at 110 V.
Automatic electronic overload protection and overtemperature switch-off.
Enter both the functions and the times using the two buttons MODE and SET. The functions and times are indicated digitally on an LC display. The time can be set by entering all values within the preselected time scale (0.1 to 9.9 or 1 to 99 seconds, minutes or hours). The longest time is 99 hours. This permits 600 time settings. The time(s) entered is (are) permanently displayed digitally.
Settable functions (description page 13-16): **RV** = release delay, **AV** = operate delay, **AV+** = additive operate delay, **TI** = clock generator starting with impulse, **TP** = clock generator starting with pause, **IA** = impulse-controlled operate delay, **IF** = pulse shaper, **EW** = fleeting NO contact, **AW** = fleeting NC contact, **EAW** = fleeting NO contact and fleeting NC contact, **ARV** = operate and release delay, **ARV+** = additive operate and release delay, **ES** = impulse switch, **SRV** = release-delay impulse switch, **ESV** = impulse switch with release delay and switch-off early-warning function, **ER** = relay, **ON** = permanent ON, **OFF** = permanent OFF. With TI, TP, IA, EAW, ARV and ARV+ functions, a different second time can be entered also with different time ranges.
Setting the times and functions: The LCD component to be changed is selected by pressing the MODE key. The component accessed flashes. Press the SET key to change the component accessed. This may be the function, the time ranges, time T1 or time T2 (on TI, TP, IA, EAW, ARV and ARV+ only). Pressing the MODE key terminates each input. Once the time has been set with MODE, no more components are flashing. The timing relay is now ready to operate. Press the MODE key again to restart the input cycle. All the entered parameters are retained if they are not changed using SET. 25 sec. after the last operation and if the component still flashes the input cycle is automatically terminated and the previously made changes lapse.
Setting additional parameters valid for all functions: when you press the MODE button for longer than 2 seconds, you access the submenu. Press the SET button to select the parameter you want to change. Then confirm by pressing MODE. Press SET to enter the parameter and confirm by pressing MODE. After the 'LED' submenu, you return automatically to the main menu.
MIN = Minimum brightness in OFF state settable to 0 and from 10 to 89 (%), factory setting = 0.
MAX = Maximal brightness in ON state settable from 10 to 99 (%), factory setting = 99. MAX must be at least 10 divisions above MIN.
RMP = Switch ON/OFF ramp (soft ON and soft ON) adjustable from 0 = 10 ms to 99 = 1 s, factory setting = 0.
LED = LED+ for dimmable 230 V LED lamps which cannot be dimmed down far enough in automatic mode (trailing edge control) for design reasons and must therefore be forced by phase control. Enabled by pressing MODE; factory setting = LED without +.
Functions of the LC display: if you selected the functions ON or OFF, no time is displayed. Instead an arrow indicates either ON or OFF. In all other functions the set time(s), the function abbreviation and an arrow next to ON and OFF display the switching position. The clock symbol flashes while the set time is elapsing and the remaining time is shown.
Safety in the event of a power failure: The set parameters are stored in an EEPROM and are therefore immediately available again when the power supply is restored after a power failure.

MFZ12PMD-UC	Power MOSFET up to 400 W	EAN 4010312601099	**72,50 €/pc.**

Recommended retail prices excluding VAT.

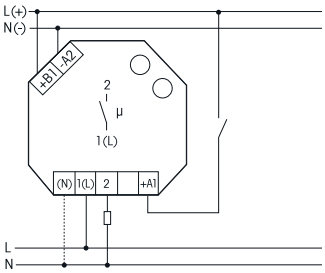


Function rotary switches



Standard setting ex factory.

Typical connection



If N is connected, the zero passage switching is active.

Technical data page 19.

MFZ61DX-UC

1 NO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.02–0.4 watt only.

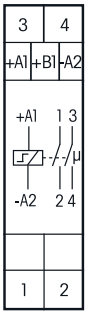
Built-in device for installation.
45 mm long, 45 mm wide, 18 mm deep.
With the patented Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 1(L) for this. This gives an additional standby consumption of only 0.1 watt.
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.
Universal control voltage input 8 to 230 V UC. Supply voltage is same as the control voltage.
Time settings between 0.5 seconds and 1 hour.
Functions F (description page 18)

RV = off delay
AV = operating delay
TI = clock generator starting with impulse
IA = impulse-controlled operating delay
EW = fleeting NO contact
AW = fleeting NC contact

* The maximum load can be used from a delay time or clock cycle of 5 minutes.
The maximum load is reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

MFZ61DX-UC	1 NO contact 10 A	EAN 4010312603055	**49,00 €/pc.**

Recommended retail prices excluding VAT.

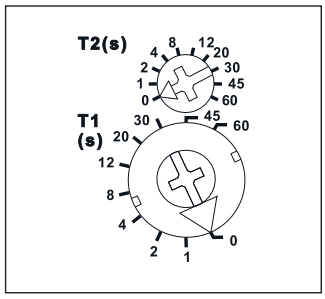


A2Z12-UC

2-stage ON-delay. 1+1 NO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 1000 W. Standby loss 0.4 watt only.

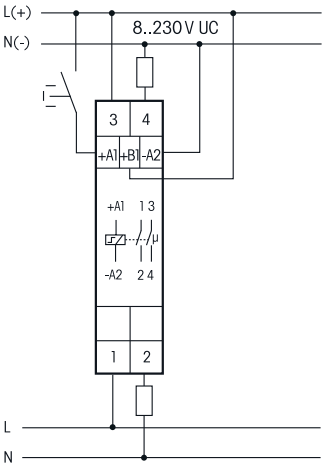
Modular device for DIN EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.
Universal control voltage input 8 to 230 V UC. Supply voltage is same as the control voltage.
Contact position display with two LEDs. Very low switching noise.
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.
In case of a power failure the system is disconnected in a preset sequence.
When the control voltage is applied, the time lapse T1 starts between 0 and 60 seconds.
At the end of the time lapse, contact 1-2 closes and time lapse T2 starts between 0 and 60 seconds.
At the end of this time lapse, contact 3-4 closes. After an interval, the time lapse starts again at T1.

Function rotary switches



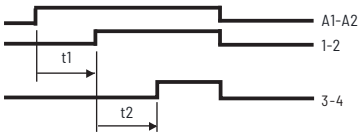
Standard setting ex factory.

Typical connection



Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

A2 = 2-stage ON-delay



When the control voltage is applied, the time lapse T1 starts between 0 and 60 seconds. At the end of the time lapse, contact 1-2 closes and time lapse T2 starts between 0 and 60 seconds. At the end of this time lapse, contact 3-4 closes. After an interval, the time lapse starts again at T1.

A2Z12-UC	1+1 NO contact 10 A	EAN 4010312603178	**65,70 €/pc.**

Recommended retail prices excluding VAT.

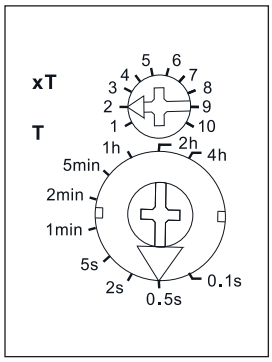
AVZ12DX-UC

Operate delay, 1 CO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.02-0.4 watt only.

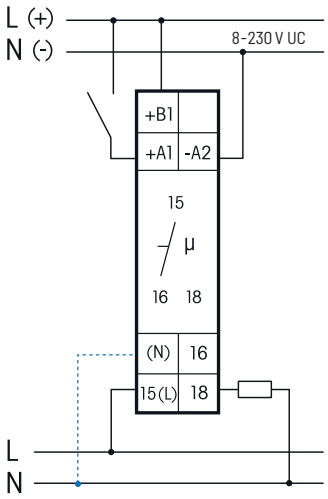
Modular devices for DIN-EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
With the Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 15 (L) for this. This gives an additional standby consumption of only 0.1 Watt.
Universal control voltage 8 to 230 V UC. Supply voltage same as the control voltage.
Time setting between 0.1 seconds and 40 hours.
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 LED below the big rotary switch indicates the contact position while time-out is in progress. It blinks while the relay contact 15-18 is open (15-16 closed), and is continuously ON as long as the relay contact 15-18 is closed (15-16 open).
The time base T is selected by means of the middle, latching rotary switch T. Time-base figures available are 0.1 seconds, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes,
5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the timebase by the multiplier.
The multiplier xT is set on the upper, latching rotary switch xT and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 seconds (time base 0.1 seconds and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

* The maximum load can be used starting at a delay time or clock cycle of 5 minutes. The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

Function rotary switches



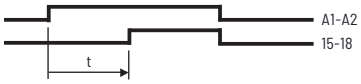
Typical connection



If N is connected, the zero passage switching is active.

Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

AV = Operate delay (ON delay)



When the control voltage is applied the timing period is started; on time-out the relay contact changes to 15-18. After an interruption, the timing period is restarted.

AVZ12DX-UC	AV operate delay	EAN 4010312603109	**55,50 €/pc.**

Recommended retail prices excluding VAT.

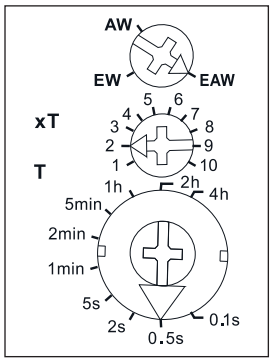
EAW12DX-UC

Fleeting NO contact and fleeting NC contact, 1 CO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.02-0.4 watt only.

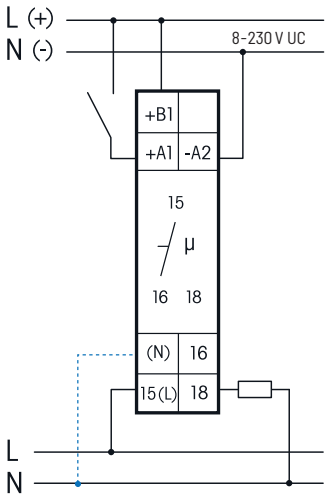
Modular devices for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.
Different functions can be selected by a rotary switch: fleeting NO contact (EW), fleeting NC contact (AW) or fleeting NO contact and fleeting NC contact (EAW).
With the Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 15 (L) for this. This gives an additional standby consumption of only 0.1 Watt.
Universal control voltage 8 to 230 V UC. Supply voltage same as the control voltage.
Time setting between 0.1 seconds and 40 hours.
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 LED below the big rotary switch indicates the contact position while time-out is in progress. It is OFF while the relay contact 15-18 is open (15-16 closed), and is continuously ON as long as the relay contact 15-18 is closed (15-16 open).
The time base T is selected by means of the middle, latching rotary switch T. Time-base figures available are 0.1 seconds, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes,
5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the timebase by the multiplier.
The multiplier xT is set on the upper, latching rotary switch xT and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 seconds (time base 0.1 seconds and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

* The maximum load can be used starting at a delay time or clock cycle of 5 minutes. The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

Function rotary switches



Typical connection



If N is connected, the zero passage switching is active.

EW = Fleeting NO contact

When the control voltage is applied the NO contact changes to 15-18 and reverts on wiping time-out. If the control voltage is removed during the wiping time the NO contact immediately reverts to 15-16 and the residual time is cancelled.

AW = Fleeting NC contact

When the control voltage is interrupted the NO contact changes to 15-18, and reverts on wiping time-out. If the control voltage is applied during the wiping time the NO contact immediately reverts to 15-16 and the residual time is cancelled.

EAW = Fleeting NO contact and fleeting NC contact

When the control voltage is applied or interrupted the relay contact changes to 15-18 and reverts after the set wiping time.

EAW12DX-UC	EW+AW+EAW Fleeting NO contact and fleeting NC contact	EAN 4010312603123	**55,60 €/pc.**

Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

Recommended retail prices excluding VAT.

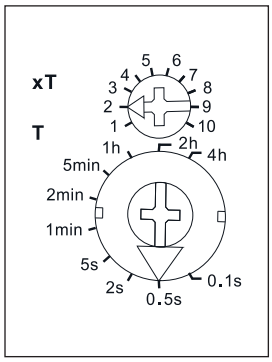
RVZ12DX-UC

Release delay, 1 CO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.02-0.4 watt only.

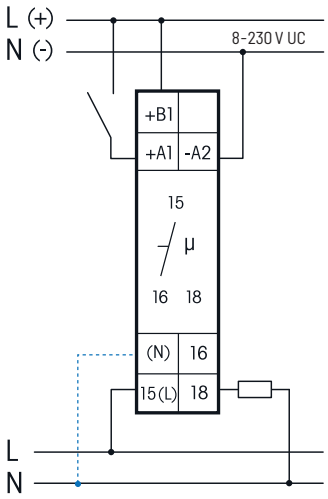
Modular devices for DIN-EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
With the Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 15 (L) for this. This gives an additional standby consumption of only 0.1 Watt.
Universal control voltage 8 to 230 V UC. Supply voltage same as the control voltage.
Time setting between 0.1 seconds and 40 hours.
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 LED below the big rotary switch indicates the contact position while time-out is in progress. It is OFF while the relay contact 15-18 is open (15-16 closed), and is continuously ON as long as the relay contact 15-18 is closed (15-16 open).
The time base T is selected by means of the middle, latching rotary switch T. Time-base figures available are 0.1 seconds, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes,
5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the timebase by the multiplier.
The multiplier xT is set on the upper, latching rotary switch xT and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 seconds (time base 0.1 seconds and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

* The maximum load can be used starting at a delay time or clock cycle of 5 minutes. The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

Function rotary switches



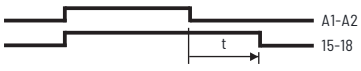
Typical connection



If N is connected, the zero passage switching is active.

Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

RV = Release delay (OFF delay



When the control voltage is applied the relay contact switches to 15-18. When the control voltage is interrupted the timing period is started; on time-out the relay contact returns to normal position. Resettable during the timing period.

RVZ12DX-UC	RV release delay	EAN 4010312603093	**55,50 €/pc.**

Recommended retail prices excluding VAT.

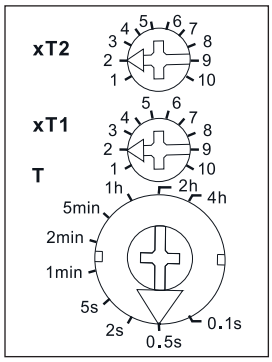
TGI12DX-UC

Clock generator starting with impulse, 1 CO contact potential free 10 A/250 V AC. 230 V LED lamps up to 200 W, incandescent lamps 2000 W*. Standby loss 0.02-0.4 watt only.

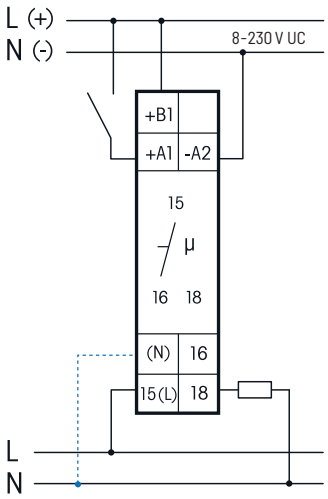
Modular devices for DIN-EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
T1 and T2 can be set separately by a second multiplier while the time base remains the same.
With the Eltako Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 15 (L) for this. This gives an additional standby consumption of only 0.1 Watt.
Universal control voltage 8 to 230 V UC. Supply voltage same as the control voltage.
Time setting between 0.1 seconds and 40 hours.
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 LED below the big rotary switch indicates the contact position while time-out is in progress. It blinks while the relay contact 15-18 is open (15-16 closed), and is continuously ON as long as the relay contact 15-18 is closed (15-16 open).
The time base T is selected by means of the middle, latching rotary switch T. Time-base figures available are 0.1 seconds, 0.5 seconds, 2 seconds, 5 seconds, 1 minute, 2 minutes,
5 minutes, 1 hour, 2 hours and 4 hours. The total time is obtained by multiplying the timebase by the multiplier.
The multiplier xT is set on the upper, latching rotary switch xT and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 seconds (time base 0.1 seconds and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

* The maximum load can be used starting at a delay time or clock cycle of 5 minutes. The maximum load will be reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%.

Function rotary switches



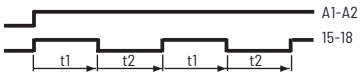
Typical connection



If N is connected, the zero passage switching is active.

Technical data page 19.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

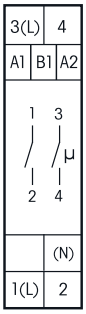
TI = Clock generator starting with impulse (flasher relay)



As long as the control voltage is applied the relay contact opens and closes.
Both times can be set separately (identical time base, but additional multiplier).
When the control voltage is applied the relay contact immediately changes to 15-18.

TGI12DX-UC	TI clock generator	EAN 4010312603116	**55,60 €/pc.**

Recommended retail prices excluding VAT.



S2U12DDX-UC

2-channel timer. 1+1 NO contacts potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, incandescent lamps 2000 W. With 'astro' function. Only 0.03–0.4 watt standby loss. With display backlighting.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18mm wide, 58mm deep.
Patented Eltako Duplex technology (DX) allows you to switch normally potential free contacts in zero passage switching when 230 V A/C voltage 50 Hz is switched. This drastically reduces wear. To achieve this, simply connect the N conductor to the terminal (N) and L to 1(L) and/or 3(L). This results in an additional standby consumption of only 0.1 watt.
In the ON state, the use of bistable relays causes no coil power loss or heating. Up to 60 timer memory locations are freely assigned to the channels. With date and automatic summer/winter time changeover. Ca. 7 days power reserve without battery. Each memory location can be assigned with the astro function (automatic switching after sunrise or sundown), the switch on/off time or a pulsed switching time (which triggers an impulse of 2 seconds). The astro switch on/off time can be changed up to ±2 hours. A time lag of up to ±2 hours influenced by the solstices can be entered additionally.
With control input (+A1) for central control ON or OFF with priority.
Supply and control voltage for central control 8 to 230 V UC.
The timer is set using the MODE and SET buttons and a keylock function is provided.
The display illumination goes on by pressing on MODE or SET.
20 seconds after you last press MODE or SET, the program returns automatically to normal display and the display illumination goes off.
Set language: Every time the power supply is applied, press SET within 10 seconds to set the language and press MODE to confirm. D = German, GB = English, F = French, IT = Italian and ES = Spanish. The normal display then appears: weekday, time, day and month.
Rapid scroll: In the following settings, the numerals scroll rapidly when you press and hold down Enter. Release then press and hold down to change the scroll direction.
Set clock: Press MODE then at PRG (program) press SET to search for the **CLK function.** Press MODE to set. In H, press SET to select the hour and press MODE to confirm. In M proceed in the same way to set the minute.
Set date: Press MODE then at PRG press SET to search for the **DAT function.** Press MODE to select. At Y, press SET to select the year and press MODE to confirm. Proceed in the same way at M to set the month and at D to set the day. The last setting in the sequence is MO (weekday) blinking. Press SET to set it and press MODE to confirm.
Set geographic position (if astro function is required): you can find a list of German cities at the end of the operating manual. Press MODE then press SET at PRG to search for the **POS function.** Select by pressing MODE. Press SET at LAT to select the latitute. Select by pressing MODE. Repeat this procedure for LON to select the longitude and press MODE to confirm. Press SET at GMT to select the time zone and press MODE to confirm. If desired a time lag of up to ± 2 hours can be entered at WS (winter solstice) and SS (summer solstice) for both channels.
Manual switching ON or OFF with priority: Press MODE and for PRG press SET to search for **function INT.** Then press MODE to select. For CH press SET to select channel 1 or 2 and press MODE to confirm. Now you can switch between AUT (automatic) and ON or OFF using SET. After confirming with MODE the shift position of the selected channel may change. If the shift position should change automatically when a time program becomes active, AUT (automatic) should be selected again. If MODE is pressed longer than 2 seconds at confirmations the change is saved and the normal display will appear.
Summer/winter time changeover: Press MODE then at PRG press SET to search for the SWT function and press MODE to select. Now press SET to switch between ON and OFF. If you select ON, changeover is automatic.
Central control ON or OFF with priority at automatic mode (AUT): Press MODE and then SET for PRG (program) to search for the **function CIA.** Press MODE to select. Then press SET to switch from CON to COF and press MODE to confirm.
Switch random mode on/off: Press MODE then at PRG press SET to search for the RND function and press MODE to select. Press SET to set to ON (RND+) or OFF (RND) and press MODE to confirm. When random mode is switched on, all switch-on time points of all channels are shifted at random by up to 15 minutes. Switch-on times are switched earlier and switch-off times are switched later.
Entering timer programs: refer to the operating instructions.
Enable keylock: Briefly press MODE and SET together and at LCK, press SET to lock. This is displayed by an arrow next to the lock symbol.
Disable keylock: Press MODE and SET together for 2 seconds and at UNL press SET to unlock.

Technical data page 19.

S2U12DDX-UC	2-channel timer	EAN 4010312603208	**80,10 €/pc.**

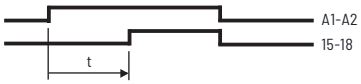
DESCRIPTION OF FUNCTIONS OF THE MULTIFUNCTION TIME RELAYS AND TIME RELAYS

The contact 15-18 corresponds on MFZ12NP to the contact L-3. The terminals A1-A2 correspond on MFZ12NP to the terminals A1-N or C1-C2. The contact 15-18 corresponds on MFZ61DX and MFZ12-230V to the contact 1-2. The terminals A1-A2 correspond on MFZ12-230V to the terminals A1-N. The contact 15-18 corresponds on MFZ12PMD to the output ⊗.

RV = Release delay (OFF delay)

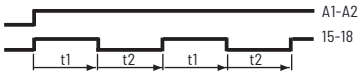
When the control voltage is applied the relay contact switches to 15-18. When the control voltage is interrupted the timing period is started; on time-out the relay contact returns to normal position. Resettable during the timing period.

AV = Operate delay (ON delay)



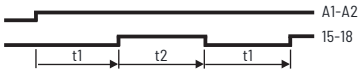
When the control voltage is applied the timing period is started; on time-out the relay contact changes to 15-18. After an interruption, the timing period is restarted.

TI = Clock generator starting with impulse (flasher relay)



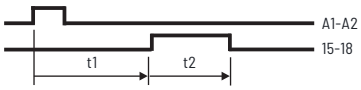
As long as the control voltage is applied the relay contact opens and closes. On MFZ12, MFZ12DX, MFZ12NP and MFZ61DX the changeover time in both directions is identical, and is equal to the preset time. On TGI12DX both times can be set separately (identical time base, but additional multiplier), on MFZ12DDX and MFZ12PMD it is completely settable separately. When the control voltage is applied the relay contact immediately changes to 15-18.

TP = Clock generator starting with pause (flasher relay)



Description of function same as for TI, except that, when the control voltage is applied, the contact initially remains at 15-16 rather than changing to 15-18.

IA = Impulse-controlled operate delay



The timing period t1 starts with a control impulse from 50ms; on time-out the relay contact changes for the timing period t2 (for MFZ12 and MFZ12DX = 1 second, for MFZ12NP and MFZ61DX =3 seconds) to 15-18 for 1 second (e.g. for automatic door opener). If t1 is set to t1 min = 0.1 seconds, the IA operates as pulse shaper, when timing period t2 elapses, independent of the duration of the control impulse (min. 150 ms).

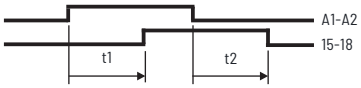
EW = Fleeting NO contact

When the control voltage is applied the NO contact changes to 15-18 and reverts on wiping time-out. If the control voltage is removed during the wiping time the NO contact immediately reverts to 15-16 and the residual time is cancelled.

AW = Fleeting NC contact

When the control voltage is interrupted the NO contact changes to 15-18, and reverts on wiping time-out. If the control voltage is applied during the wiping time the NO contact immediately reverts to 15-16 and the residual time is cancelled.

ARV = Operate and release delay



When the control voltage is applied the timing period starts; on time-out he relay contact changes to 15-18. If the control voltage is interrupted then,another timing period is started and, on time-out, the relay contact to normal position. On MFZ12, MFZ12DX and MFZ12NP this release delay is identical to the operating delay, on MFZ12DDX and MFZ12PMD it is completely settable separately. After an interruption of the operating delay, the timing period is restarted.

ER = Relais

As long as the control contact is closed the make contact reverts from 15-16 to 15-18.

EAW = Fleeting NO contact and fleeting NC contact

When the control voltage is applied or interrupted the relay contact changes to 15-18 and reverts after the set wiping time.

ES = Impulse switch

With control impulses from 50ms the make contact switches to and fro.

IF = Pulse shaper

When the control voltage is applied the relay contact changes to 15-18 for the set time. Further control impulses are evaluated only after the set time has elapsed.

ARV+ = Additive operate and release delay

Same function as ARV, but after an interruption of the operate delay the elapsed time is stored.

ESV = Impulse switch with release delay and switch-off early-warning function

Function same as SRV. Additionally with switch-off early warning: approx. 30 sec. before time-out the lighting starts flickering 3 times at gradually shorter time intervals.

AV+ = Additive operate delay

Function same as AV. However, after an interruption the elapsed time is stored.

SRV = Release-delay impulse switch

With control impulses from 50ms the make contact switches to and fro. In the contact position 15-18, the device switches automatically to the rest position 15-16 on delay time-out.

Recommended retail prices excluding VAT.

Type	MFZ12DDX [b] MFZ12DX [b] RVZ/AVZ/TGI/ EAW12DX [b]	MFZ12NP PTN12	MFZ12-230V A2Z12-UC [b]	MFZ61DX [b]	S2U12DDX [b]	MFZ12PMD
Contacts						
Contact material/contact gap	$AgSnO_2$/0.5 mm	$AgSnO_2$/0.5 mm	$AgSnO_2$/0.5 mm	$AgSnO_2$/0.5 mm	$AgSnO_2$/0.5 mm	Power MOSFET
Spacing of control connections/contact Spacing of control connections C1-C2/contact	6 mm –	3 mm 6 mm	6 mm –	6 mm –	6 mm –	6 mm –
Test voltage control connections/contact Test voltage C1-C2/contact	4000 V –	2000 V 4000 V	4000 V –	4000 V –	4000 V –	4000 V –
Rated switching capacity	10 A/250 V AC	16 A/250 V AC	10 A/250 V AC	10 A/250 V AC	16 A/250 V AC	400 W
230 V LED lamps	up to 200 W [5] I on ≤ 120 A/5 ms	up to 200 W [5] I on ≤ 30 A/20 ms	up to 200 W [5] I on ≤ 120 A/5 ms	up to 200 W [5] I on ≤ 120 A/5 ms	up to 600 W [5] I on ≤ 120 A/5 ms	Trailing edge up to 400 W Leading edge up to 100 W
Incandescent lamp and halogen lamp load [1] 230 V, I on ≤ 70 A/10 ms	2000 W [3]	2300 W [3]	1000 W [3]	2000 W [3]	2000 W [3]	400 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA [3]	1000 VA [3]	500 VA [3]	1000 VA [3]	1000 VA [3]	–
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA [3]	500 VA [3]	250 VA [3]	500 VA [3]	500 VA [3]	–
Compact fluorescent lamps with EVG* and energy saving lamps ESL	15x7 W 10x20 W [3][4][5]	15x7 W 10x20 W [3][5]	I on ≤ 35 A/10 ms [2][3][5]	15x7 W 10x20W [3][4][5]	15x7 W 10x20 W [3][4][5]	100 W [5]
Max. switching current DC1: 12 V/24 V DC	8 A	–	8 A	8 A	8 A	–
Life at rated load, cos φ = 1 for incandescent lamps 1000 W at 100/h	> 10^5	> 10^5	> 10^5	> 10^5	> 10^5	∞
Life at rated load, cos φ = 0,6 at 100/h	> $4x10^4$	> $4x10^4$	> $4x10^4$	> $4x10^4$	> $4x10^4$	∞
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	6 mm^2 (4 mm^2)	6 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	2.5 mm^2 (1.5 mm^2)	2.5 mm^2 (1.5 mm^2)
Screw head	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP50/IP20	IP30/IP20	IP50/IP20	IP50/IP20
Electronics						
Time on	100%	100%	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	+50°C/-20°C	+50°C/-20°C
Temperature dependence	< 0.2% per ºC	< 0.2% per ºC	< 0.2% per ºC	< 0.2% per ºC	< 0.2% per ºC	< 0.2% per ºC
Repeat accuracy at 25ºC	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%
Control voltage dependence from 0.9 to 1.1x rated voltage	none	none	none	none	none	none
Stored energy time in the event of power failure (then total reset)	≥ 0.2 seconds	≥ 0.2 seconds	≥ 0.2 seconds	≥ 0.2 seconds	7 days	≥ 0.2 seconds
Standby loss (active power) 230 V	MFZ12DDX: 0.5 W; MFZ12DX: 0.4-0.6 W; RVZ/AVZ/TGI/ EAW12: 0.4 W	0.5 W	0.4 W	0.4 W	0.4 W	0.3 W
Standby loss (active power) 12 V/24 V	0.02 W/0.04 W; MFZ12DDX: 0.05 W/0.1 W	–	–	0.02 W/0.04 W	0.03 W/0.06 W	–
Control current 230 V-control input local ±20%	–	2mA	2mA; A2Z12: –	–	–	–
Control current universal control voltage 8/12/24/230 V (<10 s) ± 20%	0.05/0.1/ 0.2/1 mA	2/4/9/5 (100) mA	A2Z12: 0.05/ 0.1/0.2/1 mA	0.05/0.1/ 0.2/1 mA	0.04/0.05/ 0.1/1.2 mA	10 (100) mA
Max. parallel capacitance (approx. length) of the control leads at 230 V AC	0.2 µF (600 m)	0.01 µF (30 m) C1-C2: 0.03 µF (100 m)	0.01 µF (30 m); A2Z12: 0.2 µF (600 m)	0.2 µF (600 m)	0.2 µF (600 m)	0.9 µF (3000 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] For lamps with a load of 150 W max. [2] A 40-fold inrush current must be calculated for electronic ballast devices. For steady loads of 1200 W or 600 W use the current-limiting relay SBR12 or SBR61. See chapter 14, page 14-8. [3] The maximum load can be used from a delay time or clock cycle of 5 minutes. The maximum load is reduced for shorter times as follows: up to 2 seconds 15%, up to 2 minutes 30%, up to 5 minutes 60%. [4] When using DX types close attention must be paid that zero passage switching is activated! [5] Usually applies for dimmable 230 V LED lamps and dimmable energy saving lamps. Due to different lamp electronics and depending on the manufacturer, the maximum number of lamps may be limited, especially if the wattage of the individual lamps is very low (e.g. with 2 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.

Compliance with: EN 61000-6-3, EN 61000-6-1, EN 60 669 (S2U12DDX: EN 60730-1)

TLZ12
TLZ12D
TLZ61NP
NLZ12NP

IN THE TRUE SENSE OF THE WORD „ALL HANDS FULL“? OUR STAIRCASE TIME SWITCHES SWITCH YOUR LIGHTING OFF AGAIN AUTOMATICALLY.

FOR MORE SAFETY AND LOWER POWER CONSUMPTION IN THE STAIRCASE

Our staircase light timers switch your lighting off again automatically after the set time and protect you from forgetting it.

The on time of the light can be adjusted up to 99 minutes as desired and can be switched to permanent light by pressing and holding it. Flickering will signal you in good time that the lights will soon go out. The on time can easily be extended by pressing a button.

You can find out here which different products we offer and which one is the best for your home!

THE COMPLETE RANGE

From the „simple“ to the „all-rounder“.
Staircase light actuators for every challenge.
For 3- and 4-wire circuits.
Of course for LED, ESL and incandescent lamps.

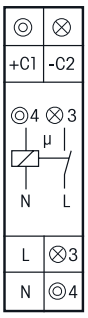
- **The simple, TLZ12-8 with noiseless electronics.**
- **The standard, TLZ12-8plus with switch-off warning according to DIN 18015-2 and permanent light.**
- **The noiseless, TLZ12G-230V + UC with solid-state relay and additional galvanically isolated universal control voltage.**
- **The all-rounder, TLZ12D-plus additionally with motion detector control input BM.**

Page		20	21	22	23	24	25	26
	pictograms	TLZ12-8plus	TLZ12-8	TLZ12G-230 V+UC	TLZ12D-plus	TLZ12-9	TLZ61NP-230 V	TLZ61NP-230 V+UC
Modular device for mounting on DIN rail EN 60715 TH35, number of modules 18 mm each		1	1	1	1	1		
Built-in device for installation (e.g. flush-mounting box)							■	■
230 V LED lamps (W)		up to 600	up to 100	up to 400	up to 600	up to 600	up to 600	up to 600
Incandescent lamp load (W)		2300	2000	400	2300	2300	2000	2000
For energy saving lamps ESL*		■	■	■	■	■	■	■
For 230 V LED lamps		■	■	■	■	■	■	■
Switch-off early warning function switchable [1]		■		■	■	■	■	■
Variable time range up to		30 min	12 min	30 min	99 min	12 min	12 min	12 min
Low standby loss	MIN	■	■	■	■	■	■	■
230 V control voltage		■	■	■	■	■	■	■
Universal control voltage (additionally) 8 to 230 V UC	UC	■		■	■			■
Glow lamp current mA		50	50	50	50	50	50	50
Double connections pushbutton and lamp		■	■	■				
Single connections below						■		
Automatic detection 3-/4-wire circuit		■	■	■	■		■	■
3-wire circuit, without attic lighting						■		
Resettable		■	■	■	■		■	■
Permanent light and switch-off logics with pushbutton switchable		■		■	■		■	■
Incrementing [2]		■		■	■		■	■
Spearate continuous light switch		■	■	■	■	■		
Additional input for motion control					■			
With multifunction: TLZ, ESV, ES and ER		■		■	■		without ER	without ER
Bistable relay		■			■	■	■	■
Zero passage switching		■		■	■	■	■	■

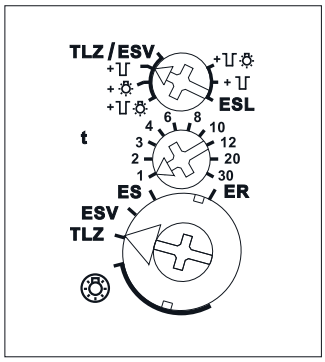
* ESL = abbr. for energy saving lamps

[1] As stipulated in DIN 18015-2 under 4.2 the following should be taken into account: For lighting systems in staircases, corridors, arcades or elevator areas it is recommended to use the switch off early warning function to prevent sudden darkness. If the switch-off early warning function is active, the light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

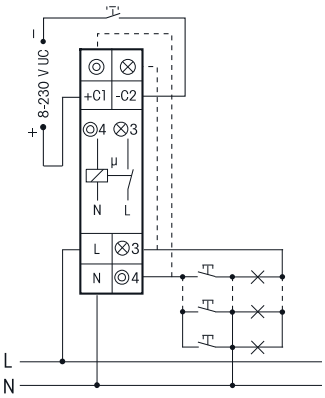
[2] Time can be extended: Within the first second after switching on or resetting the time can be extended by pressing the pushbutton repeatedly up to three times (incrementing). Each operation increments the set time once.



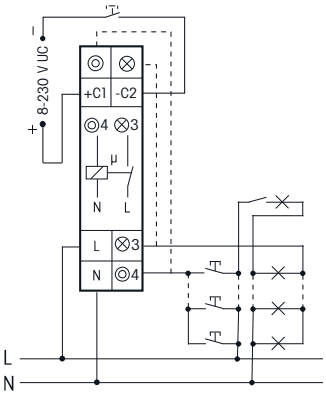
Function rotary switches



Typical connections



3-wire circuit, resettable.



4-wire circuit with attic lighting, resettable.

Technical data page 30.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

TLZ12-8plus

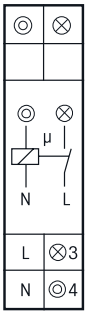
1 NO contact not potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, energy saving lamps ESL up to 200 W, incandescent lamps up to 2300 W. Control voltage 230 V and/or 8..230 V UC. Switch-off early warning and permanent light by pushbutton switchable. Standby loss 0.7 watt only. With ESL optimisation 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.
The noiseless electronics do not even bother the sensitive ear – unlike many synchronous motors with mechanical gears.
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.
Control voltage, supply voltage and switching voltage 230 V. In addition electrically isolated universal voltage from 8 to 230 V UC. 3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.
Automatic detection of the method of connection.
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.
If the function TLZ is set, the lighting is switched on again after a power failure provided the set time has not yet elapsed.
With double connections for pushbutton 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 pushbutton is switched on, permanent light can be switched on by pressing the pushbutton longer than 1 second. This is switched off automatically after 60 minutes or by pressing the pushbutton longer than 2 seconds.
If both switch-off early warning function and permanent light by pushbutton 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 pushbutton on the right hand side of the 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 pushbutton 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 pushbutton can also be switched on in this position. Forgotten permanent light is switched off after 2 hours.

= Switch-off early warning function
= Permanent light by pushbutton
= Switch-off early warning function and permanent light by pushbutton
= Permanent light switched on (all click-stop positions)
TLZ/ESV/ES/ER = The set function is active

TLZ12-8plus	1 NO contact 16 A	EAN 4010312401613	**48,60 €/pc.**

Recommended retail prices excluding VAT.



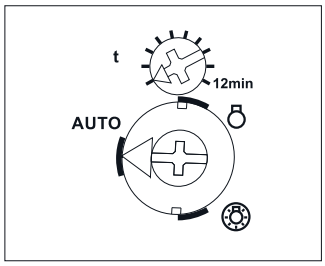
TLZ12-8

1 NO contact not potential free 16 A/250 V AC. 230 V LED lamps and energy saving lamps ESL up to 100 W, incandescent lamps up to 2000 W. Without switch-off early warning. Standby loss 0.7 watt only.

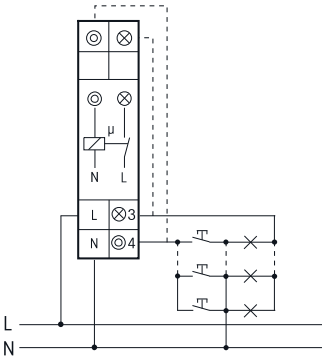
Modular device for DIN EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
The noiseless electronics do not even bother the sensitive ear – unlike many synchronous motors with mechanical gears.
230 V control voltage, supply voltage and switching voltage.
Variable time range from approx. 0.2 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.
With double connections for pushbutton and lamp in order to connect either above or below or only below.

= Function switched off
= Permanent light switched on
AUTO = The set function is active

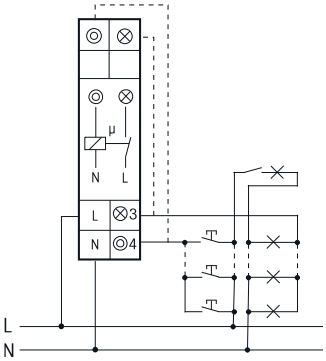
Function rotary switches



Typical connections



3-wire circuit, resettable.

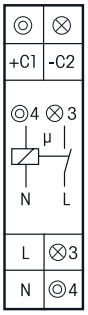


4-wire circuit with attic lighting, resettable.

TLZ12-8	1 NO contact 16 A	EAN 4010312401637	**36,30 €/pc.**

Technical data page 30.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

Recommended retail prices excluding VAT.



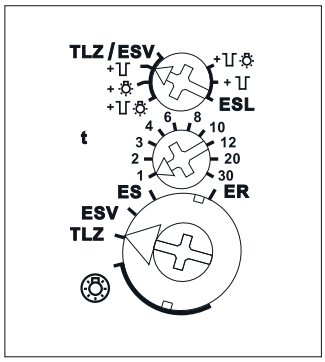
TLZ12G-230V+UC

Noiseless solid-state relay not potential-free. 230 V LED lamps and energy saving lamps ESL up to 400 W, incandescent lamps up to 400 W. Switch-off early warning and pushbutton permanent light switchable. Standby loss 0.4 watt only. With ESL optimisation and multifunction.

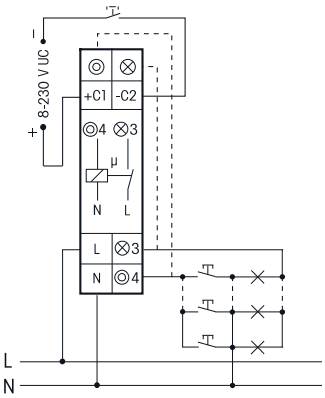
Modular device for DIN-EN 60715 TH35 rail mounting.
1 module = 18 mm wide, 58 mm deep.
Zero passage switching to protect lamps. This prolongs in particular the lifetime of energy saving lamps. The noiseless electronics and zero passage switching do not even bother the sensitive ear – unlike many synchronous motors with mechanical gears.
Control, supply and switching voltage 230 V. Additionally 8 to 230 V UC electrically isolated universal control voltage. 3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit. **Automatic detection of the method of connection.**
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.
If the function TLZ is set, the lighting is switched on again after a power failure provided the set time has not yet elapsed.
With double connections for pushbutton 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 pushbutton permanent light is switched on permanent light can be switched on by pressing pushbutton longer than 1 second. This is switched off automatically after 60 minutes or by pressing pushbutton longer than 2 seconds.
If both switch-off early warning function and permanent light pushbutton 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 pushbutton permanent light on the right hand side of the 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 pushbutton 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 pushbutton permanent light can be switched on additionally in this position as well. Forgotten permanent light is switched off after 2 hours.

= Switch-off early warning function
= Permanent light by pushbutton
= Switch-off early warning function and permanent light by pushbutton
= Permanent light switched on (all click-stop positions)
TLZ/ESV/ES/ER = The set function is active

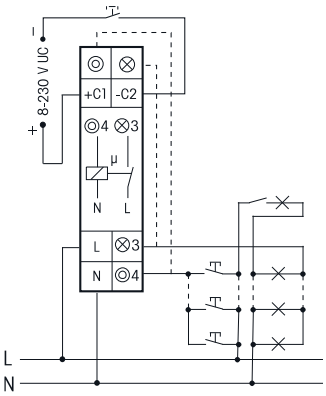
Function rotary switches



Typical connections



3-wire circuit, resettable.

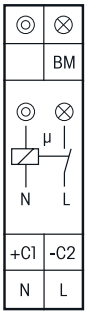


4-wire circuit with attic lighting, resettable.

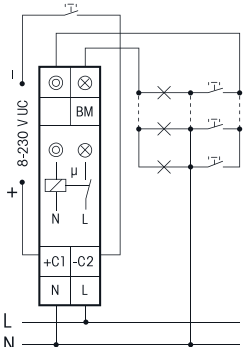
Technical data page 30.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

TLZ12G-230V+UC	Solid state relays 400 W	EAN 4010312401460	**55,30 €/pc.**

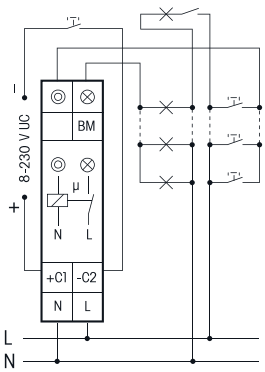
Recommended retail prices excluding VAT.



Typical connections



3-wire circuit, resettable.



4-wire circuit with attic lighting, resettable.

Technical data page 30.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

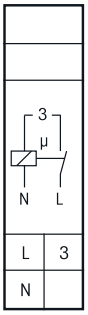
TLZ12D-plus

1 NO contact not potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, energy saving lamps ESL up to 200 W, incandescent lamps up to 2300 W. Control voltage 230 V and/or 8..230 V UC. Switch-off early warning and permanent light by pushbutton 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.
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.
The noiseless electronics do not even bother the sensitive ear – unlike many synchronous motors with mechanical gears.
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.
Control voltage, supply voltage and switching voltage 230 V. In addition electrically isolated universal voltage from 8 to 230 V UC. 3-wire and 4-wire circuits, resettable, with attic lighting if 4-wire circuit.
Automatic detection of the method of connection.
Glow lamp current up to 50 mA, dependent on the ignition voltage of the glow lamps.
Precise variable time range from 1 to 99 minutes.
Separate continuous light pushbutton with projecting SET button in the functions STS, ISO, IS and R.
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 pushbutton function is not active.
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 pushbutton 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 pushbutton is switched on, permanent light can be switched on by pressing the pushbutton longer than 1 second. This is switched off automatically after time variable from 0.5 to 10 hours or by pressing the pushbutton longer than 2 seconds. This function is not active at the BM input.
If both switch-off early warning function and permanent light by pushbutton 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 pushbutton 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). 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 pushbutton and ESL are also switchable if the function ISO is set.
HC: As long as the pushbutton 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 funtion HC is set.
Menu guidance with selectable languages German, English or French as described in the attached operating instructions.

TLZ12D-plus	1 NO contact 16 A	EAN 4010312401712	**52,50 €/pc.**

Recommended retail prices excluding VAT.



TLZ12-9

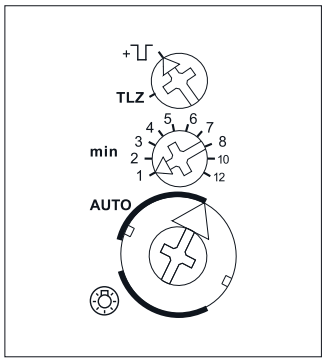
1 NO contact not potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, energy saving lamps ESL up to 200 W, incandescent lamps up to 2300 W. Switch-off early warning switchable. Standby loss 0.7 watt only.

Modular device for DIN EN 50022 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.
The noiseless electronics do not even bother the sensitive ear - unlike many synchronous motors with mechanical gears.
By using a bistable relay coil power loss and heating is avoided even in the onmode.
The switched consumer may not be connected to the mains before the short automatic synchronisation after installation has terminated.
230 V 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 of 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 onthe light starts flickering approx. 30 seconds before time-out and is repeated three times at decreasing time intervals.

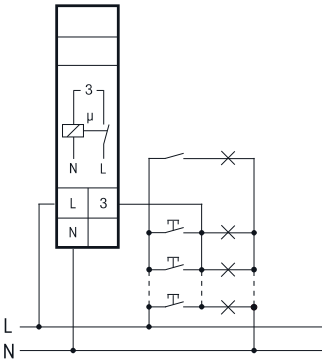
= Switch-off early warning function
= Permanent light switched on (all click-stop positions)
AUTO = The set function is active (all click-stop positions)

TLZ12-9	1 NO contact 16 A	EAN 4010312401620	**47,20 €/pc.**

Function rotary switches



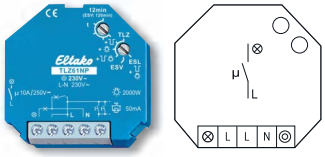
Typical connection



3-wire circuit with attic lighting, not resettable.

Technical data page 30.
Housing for operating instructions GBA14, see main catalogue, chapter Z.

Recommended retail prices excluding VAT.



TLZ61NP-230V

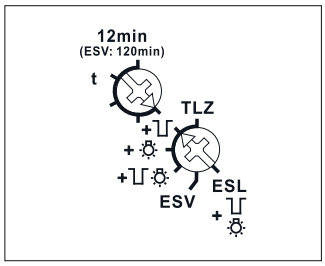
1 NO contact not potential free 10 A/250 V AC. 230 V LED lamps up to 600 W, energy saving lamps ESL up to 200 W, incandescent lamps up to 2000 W. Switch-off early warning and permanent light by push-button switchable. Standby loss 0.7 watt only. With ESL optimisation.

Built-in device for installation. 45 mm long, 45 mm wide, 18 mm deep.
Zero passage switching to protect contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.
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.
Control voltage, supply voltage and switching voltage 230 V. With infinitely variable time range from 1 to 12 minutes.
50 mA 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 ⎍ 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 pushbutton ☼ is switched on, permanent light can be switched on by pressing the pushbutton longer than 1 second. This is switched off automatically after 60 minutes or by pressing the pushbutton longer than 2 seconds.
If both switch-off early warning function and permanent light by pushbutton ☼⎍ 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 pushbutton 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 pushbutton 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.

⎍ = Switch-off early warning function
☼ = Permanent light by pushbutton
⎍☼ = Switch-off early warning function and permanent light by pushbutton

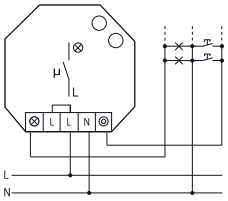
TLZ61NP-230V	1 NO contact 10 A	EAN 4010312400791	**46,30 €/pc.**

Function rotary switches

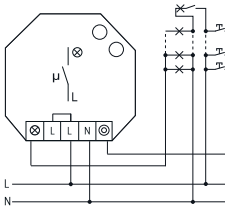


Standard setting ex works.

Typical connections



3-wire circuit, resettable.



4-wire circuit with attic lighting, resettable.

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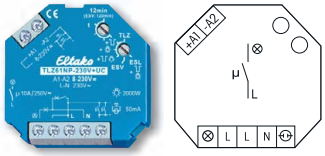
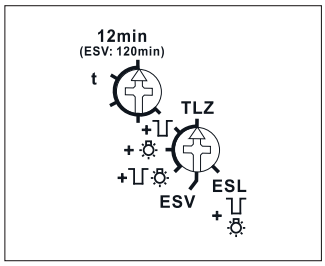
Recommended retail prices excluding VAT.

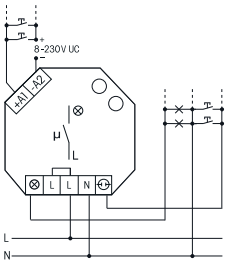


Function rotary switches

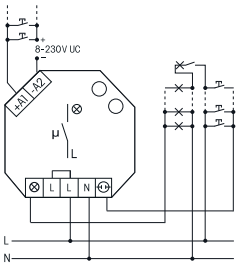


Standard setting ex works.

Typical connections



3-wire circuit, resettable



4-wire circuit with attic lighting, resettable

Technical data page 30.

TLZ61NP-230V+UC

1 NO contact not potential free 10 A/250 V AC. 230 V LED lamps up to 600 W, energy saving lamps ESL up to 200 W, incandescent lamps up to 2000 W. 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, 45 mm wide, 18 mm deep.
Zero passage switching to protect contacts and lamps. This prolongs in particular the lifetime of energy saving lamps.
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.
Control voltage, supply voltage and switching voltage 230 V. In addition electrically isolated universal voltage from 8 to 230 V UC.
With infinitely variable time range from 1 to 12 minutes. 50 mA 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 ⎍ 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 pushbutton ☼ is switched on, permanent light can be switched on by pressing the pushbutton longer than 1 second. This is switched off automatically after 60 minutes or by pressing the pushbutton longer than 2 seconds.
If both switch-off early warning function and permanent light by pushbutton ☼⎍ 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 pushbutton 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 pushbutton 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.

⎍ = Switch-off early warning function
☼ = Permanent light by pushbutton
⎍☼ = Switch-off early warning function and permanent light by pushbutton

TLZ61NP-230V+UC	1 NO contact 10A	EAN 4010312400739	**49,60 €/pc.**

Recommended retail prices excluding VAT.

TECHNICAL DATA STAIRCASE TIME SWITCHES

Type	TLZ12-8plus [b] TLZ12D-plus [b] TLZ12-9 [b]	TLZ12G	TLZ12-8	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 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
230 V LED lamps	up to 600 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 600 W [2] I on ≤ 120 A / 5 ms
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]
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)	0.7 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 (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 230 V LED lamps and dimmable energy saving lamps. Due to different lamp electronics and depending on the manufacturer, the maximum number of lamps may be limited, especially if the wattage of the individual lamps is very low (e.g. with 2 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.

Compliance with: EN 61000-6-3, EN 61000-6-1 and EN 60 669. With switch-off early warning function according to DIN18015-2.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10/2021