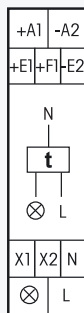


Fully Electronic Multifunction Time Relay MFZ12PMD-UC with 18 functions

Eltako
ELECTRONICS

MFZ12PMD-UC



Power MOSFET with almost unlimited number of circuits up to 400W, ESL and LED up to 100W. 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 R, L and C loads up to 400W dependent on ventilation conditions, for dimmable energy saving lamps ESL and dimmable 230V LED lamps up to 100W. Automatic detection of load types R+L or R+C. LED setting LED+ selectable in display. Switching voltage 230V.

If **minimum brightness** is not set to 0, the circuit is not switched off but dimmed down to the set percentage.

Up to 3400W with capacity enhancers LUD12-230V (description page B5) at the terminals X1 and X2. Universal control voltage 8 to 230V 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.

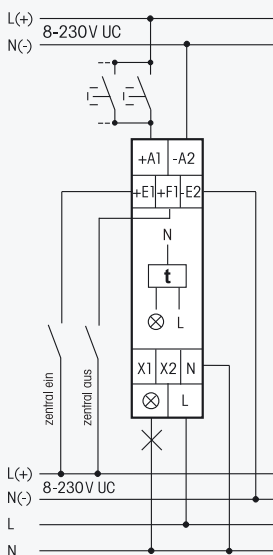
Glow lamp current up to 5 mA starting at 110V.

Automatic electronic overload protection and over-temperature 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 E9): **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.

Typical connection



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 = 10ms to 99 = 1s, factory setting = 0.

LED = LED+ for dimmable 230V LED lamps is activated by pressing the MODE button, 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.

Technical data page E11. Housing for operating instructions GBA12 page Z5.

MFZ12PMD-UC

Power MOSFET bis 400W

EAN 4010312601099

65,10 €/pc.

Recommended retail prices excluding VAT.