



23 100 530 - 1



**Analogue settable multifunction time relay**

**MFZ12-230V with 10 functions**

**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

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

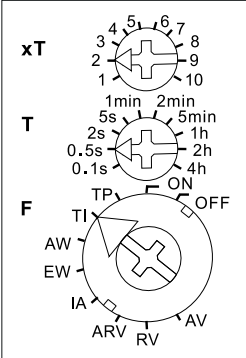
Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.

**Control voltage 230 V.**

**Supply voltage same as the control voltage.**

Time setting between 0.1 seconds and 40 hours.

**Function rotary switches**



**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.

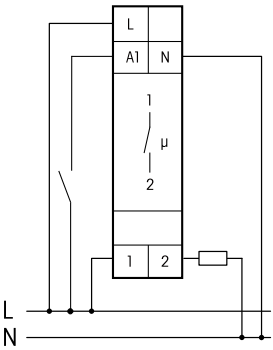
**The multiplier xT** is set on the upper, latching rotary switch xT and is in the range from 1 to 10. Thus, time settings can be selected in the range from 0.1 seconds (time base 0.1 seconds and multiplier 1) and 40 hours (time base 4 hours and multiplier 10).

\* 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%.

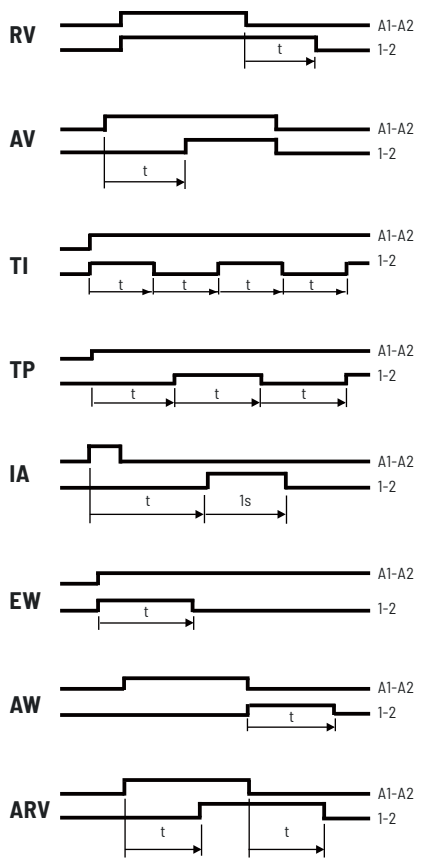
**Functions**

- RV** = off delay
- AV** = operate delay
- TI** = clock generator starting with impulse
- TP** = clock generator starting with pause
- IA** = impulse controlled pickup 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

**Typical connection**



**Functions F**



**Technical data**

Supply voltage and control voltage	230 V
Rated switching capacity	10 A/250 V AC

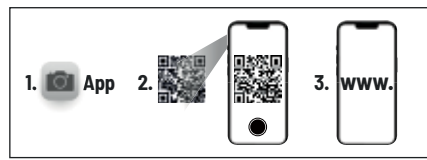


The strain relief clamps of the terminals must be closed, that means the screws must be tightened for testing the function of the device. The terminals are open ex works.

**Manuals and documents in further languages:**



<https://eltako.com/redirect/MFZ12-230V>



**Must be kept for later use!**

We recommend the housing for operating instructions GBA14.

**ELTAKO GmbH**

D-70736 Fellbach

**Technical Support English:**

+49 711 943 500 25

technical-support@eltako.de

eltako.com