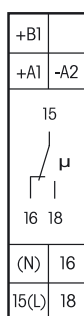


# DIGITAL SETTABLE MULTIFUNCTION TIME RELAY MFZ12DDX-UC WITH 18 FUNCTIONS



## MFZ12DDX-UC



**1 CO contact potential free 10 A/250 V AC. 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 13-11)

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

With TI, TP, IA, EAW, ARV and ARV+ functions, a different second time can be entered also with different time ranges.

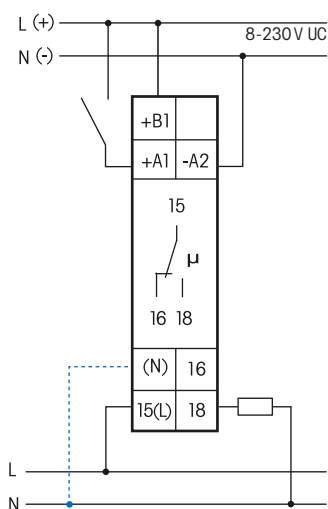
**Setting the times and functions:** The LCD component to be changed is selected by pressing the MODE key. The component accessed flashes. Press the SET key to change the component accessed. This may be the function, the time ranges, time T1 or time T2 (on TI, TP, IA, EAW, ARV and ARV+ only). Pressing 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%.

### Typical connection



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

Technical data page 13-13.  
Housing for operating instructions GBA12,  
see accessoires, chapter Z.

<b>MFZ12DDX-UC</b>	1 CO contact 10 A	EAN 4010312603079	<b>59,10 €/pc.</b>
--------------------	-------------------	-------------------	--------------------