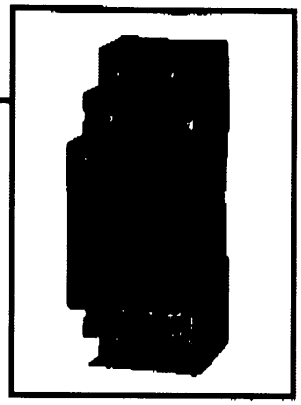
octo Series

# Multifunction Timer

- ☒ Zoomvoltage : 12-240V AC/DC
- ☒ Housing for electrical installation, width 35 mm
- ☒ 8 functions, 8 time ranges
- ☒ Loadable control contact
- ☒ Indication of time period

325-6546



OM3

## 1 Adjustable functions with rotating switches

**E** On Delay
**R** Off Delay
**Wu** Single shot leading edge
**Ws** Single shot leading edge pulse started
**Wa** Single shot trailing edge
**Es** On delay with control contact
**Bp** Flasher pause first
**Wt** Pulse detection

## 2 Adjustable time Ranges with rotating switches

seconds: 1, 10
minutes: 1,10
hours: 1,10
days: 1,10
Time adjustment from 5-100% of selected time range

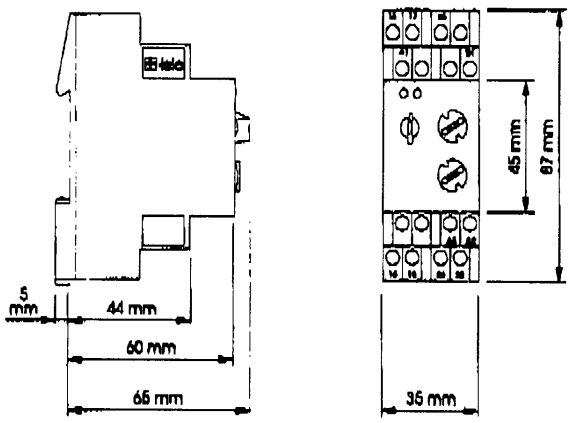
## 3 Display

Green LED On: Power on
Yellow LED On/Off: relay status
Green LED is blinking: Indication of timing period

## 4 Mechanical specifications

Screw terminals up to 4 mm²
Rail mounting on DIN rails according to DIN 46277/3

**Dimensions:**




## 5 Supply voltage

12 - 240V AC/DC on terminals A1 - A2
(+ pole on A1 at DC-supply)
Nominal frequency range: 48 - 63 Hz
Permissible voltage range: -10%to +10%
from -15°C onwards: -5% to +10%
Nominal consumption: 24V AC/DC: 1,5 VA (1W)
110V AC: 4VA (1,5W)
230V AC: 6VA (2W)
Reset time: max. 100ms
Protection against power failure: max.10ms

## 6 Output contact

2 potential free change over
Switching capacity 8A, 250V AC, 2.000 VA
Switching capacity 5A, 250V AC, 1.250 VA
(units mounted without spacing)
Mechanical life: $30x10^6$ operations
Electrical life: $40x10^4$ operations
(1 kVA resistive load)
Switching frequency: max.3600/h (100VA resistive load)
Potential of power failure: < 30% of supply voltage

## 7 Control contact

The control contact is loadable, that means it is possible to switch a parallel load with this contact (Parallel load: min. 1VA or 0,5W).
It depends on the level of voltage: voltage B1-A2 must be at a minimum 90% of supply voltage
Wiring distance A1-B1: capacity must not exceed 10nF and resistance must not be below 1MOhm
Leakage current of parallel load: approx. 2mA at open control contact

## 8 Accuracy

Base accuracy at min. and max. position: ± 0,5%
Repetition accuracy under constant conditions:
< 0,5% of end value or ± 5ms
Adjusting accuracy: ≤ 5%
Influence of temperature: ≤ 0,01%/°C

# Function diagrams

### E On delay


When U is applied, t is started, after t has timed out, R attracts.

### R Off delay


When S is triggered, R attracts. After S has been removed, timing of t starts, after t has timed out, R drops out. If S is re-triggered even before t has timed out, t is reset, R remains attracted.

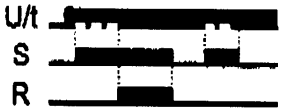
### Ws Single shot leading edge


With a positive edge on S, R attracts and t is started. After t has timed out, R drops out. During the timing of t, condition changes on S have no effect on R (R remains attracted). Only after t has timed out is the process restarted by a positive edge on S.

### Wa Single shot trailing edge


When S, R remains in the position of rest. With a negative edge on S, R attracts and t is started. After t has timed out R drops out. During the timing of t, condition changes on S have no effect on R (R remains attracted). Only after t has timed out is the process restarted by a negative edge on S.

### Es On delay with control contact




When S is applied, t is started, after t has timed out, R attracts. When S is switched off, R drops out or remains dropped out, t is reset if required.

### Wu Interval timer (leading edge)


When U is applied t is started and R attracts, after t has timed out, R drops out.

### Bp Flasher pause first


When U is applied R is alternately switched off and on for the time t, starting with an interval.

### Wt Pulse detection

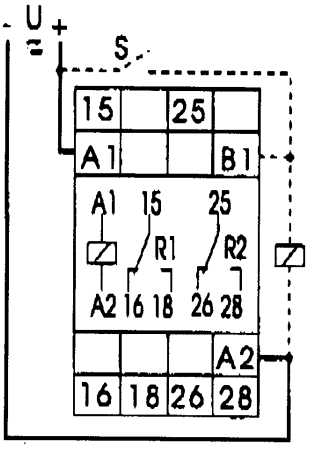

When U is applied, R attracts, that is independent of the condition of S ("start-up bridge", without time control!). The first positive edge on S starts t. If the next positive edge on S follows before t has timed out, t is started again (re-triggered), R remains attracted, etc., until the positive edges occur before t has timed out. However, if t times out, R drops out into no-load position and the function is locked to all further condition changes on S. The process can only be restarted by switching U off and on again.

Legend: U .... supply voltage
S .... control contact
T .... time period
R .... output relay

# Standards

Duty cycle: 100%, IEC class 1c
Permissible Ambient temperature: -25°C - +55°C
Climatic resistance: HVF according to DIN 40040, pr IEC 1812-1(1994) and IEC 721-3-3 class 3K3
Protection against contact: according to VDE 0106 and VBG 4
Terminal arrangement and marking according to DIN 46199
Enclosure: Self-exstinguishing plastic, protection class IP 40
Protection against accidental contact: protection class IP 20
Standard according to VDE 0110 iGr. C/250
Dielectric strength 2000V AC according to VDE 0435
EMC emmission: according to EN 50081-1 and EN 55022
EMC immunity: Immunity against surge according to IEC 1000-4-5
Fast transients, Burst according to EN 50082-2 (Level 3), IEC 1000-4-4 2kV 5/50ns
Fast transients, Burst according to EN 61812-1 (Level 3), IEC 1000-4-4 2kV 5/50ns
Fast transients, Burst according to IEC 1000-4-4 (Level 4) 4kV 5/50ns
Electrostatic discharge ESD according to EN 50082-2, IEC 1000-4-2
Electrostatic discharge ESD according to EN 61812-1 (Level 3) IEC 1000-4-2
Immunity against conducted HF-disturbance according to EN 50082-2, ENV 50141
Immunity against Electromagnetic HF-Field according to EN 50082-2, ENV 50140 and ENV 50204
Manufacturing standard according to ISO 9001

# Connection diagram





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