

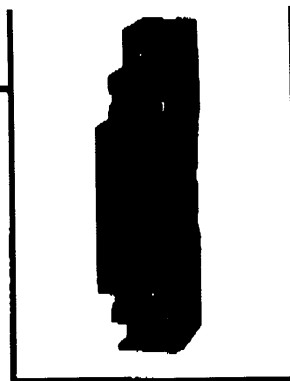
octo

Series

Multifunction Timer - Type OM1

- Zoomvoltage : 12-240V AC/DC
- Housing for electrical installation, width 17,5 mm
- 8 functions, 8 time ranges
- Loadable control contact
- Indication of time period

325-6534



Important technical Data

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

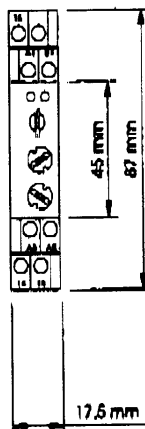
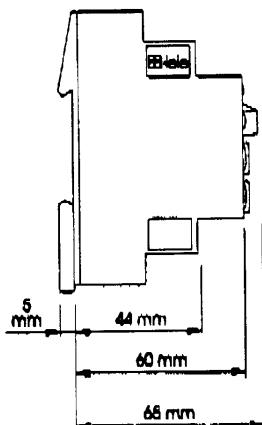
3 Display

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 (0,5W)
 110V AC: 4VA (0,7W)
 230V AC: 6VA (1,5W)

Reset time: max. 100ms
 Protection against power failure: max. 10ms
 Potential of power failure: > 30% of supply voltage

6 Output Contact

1 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: 30x10⁶ operations
 Electrical life: 40x10⁴ operations (1kVA resistive load)
 Switching frequency: max. 3600/h (100VA resistive load)

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 1MΩ
 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

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

E On delay



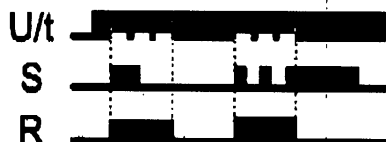
When U is applied, t is started, after t has timed out, R attracts.

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



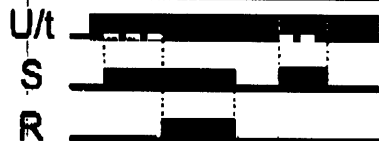
With a positive edge on S, R attracts and t is started. After t has timed out, R drops out. During the timing of t, condition changes on S have no effect on R (R remains attracted). Only after t has timed out is the process restarted by a positive edge on S.

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

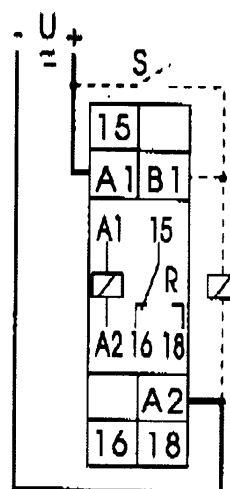


When U is applied, R attracts, that is independent of the condition of S ("start-up bridge", without time control). The first positive edge on S starts t. If the next positive edge on S follows before t has timed out, t is started again (re-triggered), R remains attracted, etc., until the positive edges 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.

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-extinguishing 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 emission: 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



series octo



Tele Control Ltd.

GB-St. Leonards-On-Sea, East Sussex TN38PN, Europa House, Gresley Rd., Costleham Ind. Est.
Tel: 01424/85 38 44 Fax: 01424/85 11 20 e-mail: sales@telecontrol.demon.co.uk