Timer - OCTO series

ODQ1

- **Installation design**
- **Width 17.5 mm**
- **4 functions, 6 time ranges**
- **1 change-over contact**

Technical data:

1. Functions

E	ON delay
R	OFF delay with control contact
Wu	Single shot leading edge voltage controlled
Bp	Flasher pause first

2. Delay ranges

Time range	Adjustment range	
1s	50ms	1s
10s	500ms	10s
1min	3s	1min
10min	30s	10min
1h	3min	1h
10h	30min	10h

3. Displays

Green LED ON: Indication of supply voltage
Yellow LED ON/OFF: Indication of relay output

4. Mechanical design

Self-extinguishing housing, IP rating IP40 ,
protection type IP40
Mounting on DIN-Rail TS 35 in accordance with EN 50022
Mounting position: Any
Shockproof terminal connection according to VBG 4
(PZ1 required), IP rating IP 20
Initial torque: max. 1Nm
Terminal capacity:
1 x 0.5 to 2.5mm² with/without connector sleeve
1 x 4mm² without connector sleeve
2 x 0.5 to 1.5mm² with/without connector sleeve
2 x 2.5mm² flexible without connector sleeve

5. Input circuit

Supply voltage:	24V DC terminals A1(+)-A3	
	24V AC terminals A1-A3	
	110V to 240V AC terminals A1-A2	
Tolerance:	24V DC	±10%
	24V AC	-15% to +10%
	110V to 240V AC	-15% to +10%
Rated frequency:	48 to 63Hz	
Rated consumption:	24V AC/DC	1.5VA (1W)
	110V AC	2VA (1W)
	230V AC	8VA (1.3W)
Duration factor:	100%	

Reset time: 100ms
Residual ripple for DC: 10%
Drop-out voltage: > 30% of supply voltage

6. Output circuit

1 potential free change-over contact
Switching capacity (distance < 5mm):
750VA (3A / 250V AC)
Switching capacity (distance > 5mm):
1250 VA (5A / 250V AC)
Fuse: 8A fast/slow acting
Mechanical life: 20 x 10^6 operations
Electrical life: 2 x 10^5 operations at 1000VA resistive load
Switching frequency: max. 60/min at 100VA resistive load
max. 6/min at 1000VA resistive load
(according to IEC 947-5-1)
Insulation rated voltage: 250V AC (according to IEC 664-1)
Rated surge voltage: 4kV, overvoltage category III
(according to IEC 664-1)

7. Control contact

Connection: under potential, terminals A1-B1
Loadable: no
Maximum line length: 10m
Minimum control pulse length: DC 20ms
AC 50ms

8. Accuracy

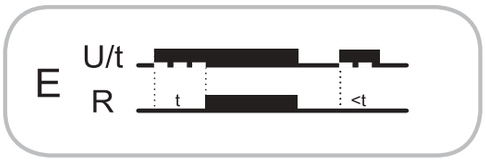
Basic accuracy:	±1% (of maximum scale value)
Adjustment accuracy:	<5% (of maximum scale value)
Repeat accuracy:	≤0.5% or ±5ms
Voltage influence:	---
Temperature influence:	<0.01% / °C

9. Ambient conditions

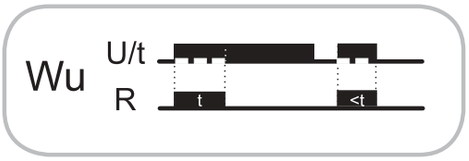
Ambient temperature:	-25 to +55°C (according to IEC 68-1)
Storage temperature:	-25 to +70°C
Transport temperature:	-25 to +70°C
Relative humidity:	15% to 85% (according to IEC 721-3-3 Class 3K3)
Pollution degree:	2, if built-in 3 (according to IEC 664-1)

10. Function diagrams and function description

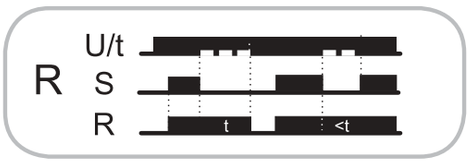
ON delay (E)
The set interval begins when the supply voltage U is applied (green LED illuminated). Once the interval has expired the output relay picks up (yellow LED illuminated). This status remains until the supply voltage is interrupted.
If the supply voltage is interrupted before the expiry of the interval, the interval already expired is erased and is restarted when the supply voltage is next applied.



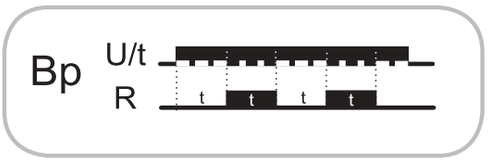
Single shot leading edge voltage controlled (Wu)
When the supply voltage U is applied (green LED illuminated), the output relay picks up (yellow LED illuminated) and the set interval begins. Once the interval has expired the output relay drops out (yellow LED not illuminated). This status remains until the supply voltage is interrupted.
If the supply voltage is interrupted before the interval has expired, the output relay drops out. The interval already expired is erased and is restarted when the supply voltage is next applied.



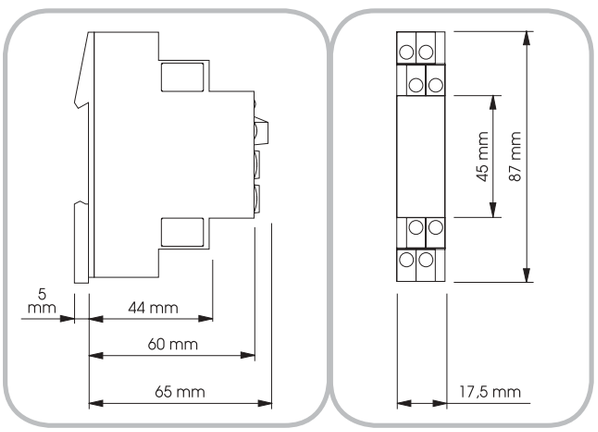
OFF delay with control contact (R)
The supply voltage U must be constantly applied to the device (green LED illuminated).
The output relay picks up (yellow LED illuminated) when the control contact S is closed. If the control contact S is opened, the set interval begins. Once the interval has expired the output relay drops out (yellow LED not illuminated).
If the control contact is closed again before the expiry of the interval, the interval already expired is erased and is started again for the next cycle.



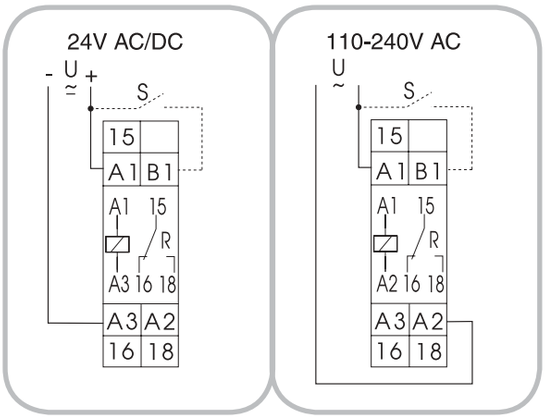
Flasher pause first (Bp)
The set interval begins when the supply voltage U is fed (green LED illuminated). Once the interval has expired the output relay picks up (yellow LED illuminated) and the set interval starts again. Once the interval has expired the output relay drops out (yellow LED not illuminated).
The output relay is triggered at a ratio of 1:1 until the supply voltage is interrupted.



11. Dimensions



12. Connection diagrams



Germany
Tele Steuergeräte GmbH
Eichendorffweg 1
D-82069 Hohenschäftlarn
Tel +49-(0)8178/9600-0
Fax +49-(0)8178/9600-30
info@tele-steuergeraete.de

Austria
Tele-Haase Steuergeräte
Ges.m.b.H
Haidmannsgasse 4
A-1151 Vienna
Tel +43-(0)89/126-0
Fax +43-(0)89/126-12/20
info@tele-haase.at

tele Automation Components