- Installation design
- Width 17.5mm
- 8 functions
- 8 time ranges
- Zoom voltage
- 1 change over contact



Technical data

1. Functions

R OFF delay with control contact

Single shot leading edge with control contact Single shot trailing edge with control contact ON delay with control contact Ws Wa

Single shot leading edge voltage controlled Wu

Вр Flasher pause first Pulse detection

2. Time ranges

Adjustment range Time range 50ms 1s 1s 10s 500ms 10s 1min 1min 10min 30s 10min 1h 3min 1h 10h 30min 10h 1d 72min 1d 10d 10d 12h

3. Indicators

Green LED ON: indication of supply voltage Green LED flashes: indication of time period Yellow LED ON/OFF: indication of relay output

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40 Mounted on DIN-Rail TS 35 according to EN 50022

Mounting position: any

Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20

max. 1Nm Initial torque:

Terminal capacity:

1 x 0.5 to 2.5mm² with/without multicore cable end

1 x 4mm² without multicore cable end

2 x 0.5 to 1.5mm² with/without multicore cable end

2 x 2.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage:

12 to 60V AC/DC terminals A1(+)-A2 15% to +10% Tolerance: Rated frequency: 48 to 63Hz

Rated consumption:

0.5VA (0.3W) 0.7VA (0.6W) 1.3VA (1.2W) 12V AC/DC 24V AC/DC 48V AC/DC 60V AC/DC 1.6VA (1.5W) Duration of operation: 100% Reset time: 100ms

Residual ripple for DC: Drop-out voltage: >30% of the supply voltage

6. Output circuit

1 potential free change over contact

Switching capacity (distance < 5mm): 1250VA (5A / 250V AC) Switching capacity (distance > 5mm): 2000VA (8A / 250V AC)

10%

Fusing: Mechanical life: Electrical life:

Switching frequency:

Insulation voltage: Surge voltage:

8A fast acting 20x 10⁶ operations 2 x 10⁵ operations at 1000VA resistive load max. 60/min at 100VA resistive load max. 6/min at 1000VA resistive load (according to IEC 947-5-1)

250V AC (according to IEC 664-1) 4kV, overvoltage category III (according to IEC 664-1)

7. Control contact

Connection: not potential free, terminals A1-B1 Loadable: yes, parallel load min.1VA/0.5W terminals A2-B1 max. 10m Line length: DC AC min. 20ms Control pulse length: min. 50ms

8. Accuracy

Base accuracy: ±1% (of maximum scale value) Adjustment accuracy: ≤5% (of maximum scale value) Repetition 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)

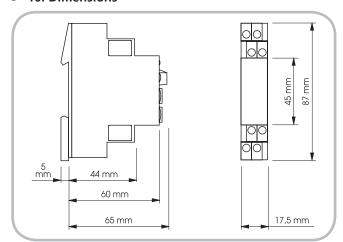
Storage temperature: -25 to +70°C Transport temperature: -25 to +70°C 15% to 85% Relative humidity:

(according to IEC 721-3-3 class 3K3) 2, if built-in 3

Pollution degree:

(according to IEC 664-1)

▶ 10. Dimensions



Functions

ON delay (E)

When the supply voltage U is applied, the set interval t begins (green LED flashes). After the interval t has expired (green LED illuminated) the output relay R switches into on-position (yellow LED illuminated). This status remains until the supply voltage is

If the supply voltage is interrupted before the expiry of the interval t, 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).

When the control contact S is closed, the output relay R switches into on-position (yellow LED illuminated). If the control contact is opened, the set interval t begins (green LED flashes). After the interval t has expired (green LED illuminated) the output relay switches into off-position (yellow LED not illuminated) If the control contact is closed again before the interval t has expired, the interval already expired is erased and is restarted with the next cycle.



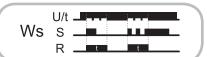
Single shot leading edge with control contact (Ws)

The supply voltage U must be constantly applied to the device (green LED illuminated).

When the control contact S is closed, the output relay R switches into on-position (green LED illuminated) and the set interval t begins (green LED flashes). After the interval t has expired (green LED illuminated) the output relay switches into off-position (yellow LED not illuminated)

During the interval, the control contact can be operated any number of times.

A further cycle can only be started when the cycle run has been completed.



Single shot trailing edge with control contact (Wa)
The supply voltage U must be constantly applied to the device (green LED illuminated).

Closing the control contact S has no influence on the condition of the output relay R. When the control contact is opened, the output relay switches into on-position(yellow LED illuminated) and the set interval t begins (green LED flashes). After the interval t has expired (green LED illuminated), the output relay switches into off-position (yellow LED not illuminated). During the interval, the control contact can be operated any

A further cycle can only be started when the cycle run has been completed.



Connections

ON delay with control contact (Es)

The supply voltage U must be constantly applied to the device (green LED illuminated).

When the control contact S is closed, the set interval t begins (green LED flashes). After the interval t has expired (green LED illuminated) the output relay R switches into on-position (yellow LED illuminated). This status remains until the control contact is opened again.

If the control contact is opened before the interval t has expired, the interval already expired is erased and is restarted with the



Single shot leading edge voltage controlled (Wu)

When the supply voltage U is applied, the output relay R switches into on-position (yellow LED illuminated) and the set interval t begins (green LED flashes). After the interval t has expired (green LED illuminated) the output relay switches into off-position (yellow LED not illuminated). This status remains

until the supply voltage is interrupted.

If the supply voltage is interrupted before the interval t has expired, the output relay switches into off-position. The interval already expired is erased and is restarted when the supply voltage is next applied.



Flasher pause first (Bp)

When the supply voltage U is applied, the set interval t begins (green LED flashes). After the interval t has expired, the output relay R switches into on-position (yellow LED illuminated) and the set interval t begins again. After the interval t has expired, the output relay switches into off-position (yellow LED not illuminated).

The output relay is triggered at a ratio of 1:1 until the supply voltage is interrupted.



Pulse detection (Wt)

When the supply voltage U is applied (green LED illuminated), the output relay R switches into on-position (yellow LED illuminated). When the control contact S is closed, the set interval t begins (green LED flashes). So that the output relay remains in on-position, the control contact must be opened and closed again within the set interval t. If this does not happen, the output relay switches into off-position and all further pulses at the control contact are ignored. To restart the function the supply voltage must be interrupted

and re-applied.



