## - Timer multifunctional

- 6 Functions
- 7 time ranges
- Wide supply voltage range
- 2 change over contacts
- Width 22.5 mm
- Industrial design



## Technical data

- 1. Functions

Ip
li
ER
EWu
EWs

WsWa
2. Time ranges

Time range
1s
10s
1 min
10 min
1h
10h
100h

Asymmetric flasher pause first Asymmetric flasher pulse first ON delay and OFF delay with control input ON delay and single shot leading edge with control input
ON delay single shot leading edge voltage controlled Single shot leading and single shot trailling edge with control contact
3. Indication

Green LED U/t ON:
Green LED U/t slow flashing:
Green LED U/t fast flashing:
Yellow LED R ON/OFF:
indication of supply voltage indication of time period t1 indication of time period t2 indication of relay output
4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
Mounted DIN-rail TS 35 according to EN 50022
Mounting position: any
Shockproof terminal connection according to VBG 4 (PZ1 required),
IP rating IP20
Tightening torque: max. 1 Nm
Terminal capacity:
$1 \times 0.5$ to $2.5 \mathrm{~mm}^{2}$ with/without multicore cable end
$1 \times 4 \mathrm{~mm}^{2}$ without multicore cable end
$2 \times 0.5$ to $1.5 \mathrm{~mm}^{2}$ with/without multicore cable end
$2 \times 2.5 \mathrm{~mm}^{2}$ flexible without multicore cable end
5. Input circuit
Supply voltage:

Types G2Z..12-240VAC/DC:
Tolerance:
Rated consumption:
Rated frequency:
Duty cycle:
Reset time:
Residual ripple of DC:
Drop out voltage:
Overvoltage category:
Rated surge voltage:
terminals A1 (+)-A2
12 to 240 V AC/DC
$12 \mathrm{~V}-10 \%$ to $240 \mathrm{~V}+10 \%$
6VA (2W)
AC 48 to 63 Hz
100\%
100ms
10\%
$>30 \%$ minimum rated supply voltage
III (according to IEC 60664-1)
4 kV

## 6. Output circuit

2 potential free change over contacts
Rated surge 250 V AC
Switching capacity (distance $<5 \mathrm{~mm}$ ):
750VA (3A / 250V AC)
Switching capacity (distance $>5 \mathrm{~mm}$ ): 1250V (5A / 250V AC)

## Functions

The function has to be set before connecting the relay to the supply voltage.

## Asymmetric flasher pause first (Ip)

When the supply voltage U is applied, the set interval t 1 begins (green LED U/t flashes slowly). After the interval t 1 has expired, the output relay $R$ switches into on-position (yellow LED illuminated) and the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired, the output relay switches into off-position (yellow LED not illuminated).
The output relay is triggered at the ratio of $\mathrm{t} 1: \mathrm{t} 2$ until the supply voltage is interrupted


Asymmetric flasher pulse first (li)
When the supply voltage $U$ is applied, the output relay $R$ switches into on-position (yellow LED illuminated) and the set interval t 1 begins (green LED U/t flashes slowly). After the interval t1 has expired, the output relay switches into off-position (yellow LED not illuminated) and the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired, the output relay switches into on-position (yellow LED illuminated). The output relay is triggered at the ratio of $\mathrm{t} 1: \mathrm{t} 2$ until the supply voltage is interrupted.


ON delay and OFF delay with control input (ER)
The supply voltage $U$ must be constantly applied to the device (green LED U/t illuminated).
When the control contact $S$ is closed, the set interval $t 1$ begins (green LED U/t flashes slowly). After the interval t1 has expired (green LED U/t illuminated), the output relay R switches into on-position (yellow LED illuminated). If the control contact is opened, the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired (green LED U/t illuminated) the output relay switches into off-position (yellow LED not illuminated).
If the control contact is closed during timing of t 2 the expired interval is erased, and the off delay restart next time the control contact is opened.


## Connections



ON delay and single shot leading edge with control input (EWs) The supply voltage $U$ must be constantly applied to the device (green LED U/t illuminated).
When the control contact $S$ is closed, the set interval t 1 begins (green LED U/t flashes slowly). After the interval t 1 has expired (green LED U/t illuminated), the output relay $R$ switches into on-position (yellow LED illuminated) and the set interval t 2 begins (green LED U/t flashes fast). After the interval t2 has expired (green LED U/t 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.


ON delay and single shot leading edge voltage controlled (EWu) When the supply voltage $U$ is applied, the set interval $t 1$ begins (green LED U/t flashes slowly). After the interval t1 has expired the output relay $R$ switches into on-position (yellow LED illuminated) and the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired (green LED U/t illuminated) the output relay switches into offposition (yellow LED not illuminated).
If the supply voltage is interrupted before the interval $\mathrm{t} 1+\mathrm{t} 2$ has expired, the interval already expired is erased and is restarted when the supply voltage is next applied.


Single shot leading and single shot trailing edge with control contact (WsWa)
The supply voltage $U$ must be constantly applied to the device (green LED U/t illuminated).
When the control contact $S$ is closed, the output relay $R$ switches into on-position (yellow LED illuminated) and the set interval t1 begins (green LED U/t flashes slowly). After the interval t1 has expired, the output relay $R$ switches into off-position (yellow LED not illuminated). If the control contact is opened, the output relay again switches into on-position (yellow LED illuminated) and the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired the output relay switches into off-position (yellow LED not illuminated). If the control contact opens before the interval t 1 has expired, t 1 continuous according to the adjusted period and the single shot trailing edge impulse ( t 2 ) follows directly after t 1 . During the interval, the control contact can be operated any number of times.


