



# TELE E3ZI20 Timers – Asymmetric Flasher Instruction Manual

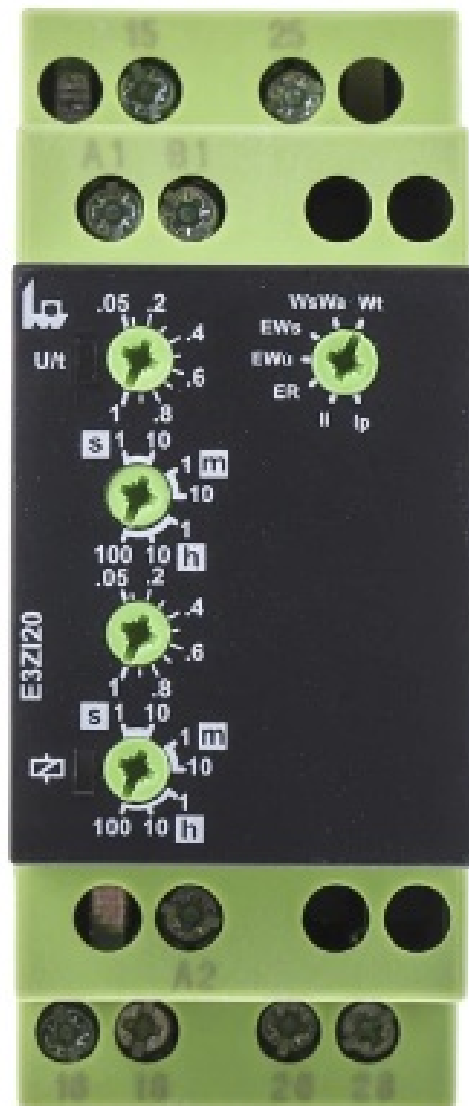
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**TELE E3ZI20 Timers – Asymmetric Flasher**



## Timers – Asymmetric flasher

- series ENYA
- 2-time multifunction
- 7 time ranges
- Wide input voltage range
- 2 change-over contacts
- Width 35mm
- Installation design

## Technical data

### Functions

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

- **lp** Asymmetric flasher pause first
- **li** Asymmetric flasher pulse first
- **ER** ON delay and OFF delay with control contact
- **EWu** ON delay single shot leading edge voltage controlled

- **EWs** ON delay single shot leading edge with control contact
- **WsWa** Single shot leading and single shot trailing edge with control contact
- **Wt** Pulse sequence monitoring

## Time ranges

- Time range Adjustment range
- 1s 50ms 1s
- 10s 500ms 10s
- 1min 3s 1min
- 10min 30s 10min
- 1h 3min 1h
- 10h 30min 10h
- 100h 5h 100h

## Indicators

- **Green LED U/t ON:** indication of supply voltage
- **Green LED U/t slow flashing:** indication of time period t1
- **Green LED U/t fast flashing:** indication of time period t2
- **Yellow LED ON/OFF:** indication of relay output

## Mechanical design

Self-extinguishing plastic housing, IP rating IP40 Mounted on DIN-Rail TS 35 according to EN 60715 Mounting position: any Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20 Tightening torque: max. 1Nm Terminal capacity:

- 1 x 0.5 to 2.5mm<sup>2</sup> with/without multicore cable end
- 1 x 4mm<sup>2</sup> without multicore cable end
- 2 x 0.5 to 1.5mm<sup>2</sup> with/without multicore cable end
- 2 x 2.5mm<sup>2</sup> flexible without multicore cable end

## Input circuit

- **Supply voltage:** 12 to 240V a.c./d.c.
- **Terminals:** A1(+)- A2
- **Tolerance:** -10% to +10%
- **Rated frequency:** 48 to 63Hz
- **Rated consumption:** 6VA (2W)
- **Duration of operation:** 100%
- **Reset time:** 100ms
- **Residual ripple of d.c.:** –
- **Drop-out voltage:** >30% of supply voltage
- **Overvoltage category:** III (in accordance with IEC 60664-1)

- **Rated surge voltage:** 4kV

## Output circuit

2 potential free change over contacts

- **Rated voltage:** 250V a.c.
- **Switching capacity:** 2000VA (8A / 250V)
- **Fusing:** 8A fast acting
- **Mechanical life:** 20 x 10<sup>6</sup> operations
- **Electrical life:** 2 x 10<sup>5</sup> operations at 1000VA resistive load
- **Switching frequency:** max. 6/min at 1000VA resistive load (in accordance with IEC 60947-5-1)
- **Overvoltage category:** III (in accordance with IEC 60664-1)
- **Rated surge voltage:** 4kV

## Control input

- **Input not potential free:** terminals A1-B1
- **Loadable:** yes
- **Max. line length:** 10m
- **Trigger level (sensitivity):** automatic adaption to supply voltage
- **Max. control pulse length:** d.c. 50ms / a.c. 100ms

## Accuracy

- **Base accuracy:** ±1% of maximum scale value
- **Adjusting accuracy:** ≤5% of maximum scale value
- **Repetition accuracy:** <0.5% or ±5ms
- **Voltage influence:** –
- **Temperature influence:** ≤0.01% / °C

## Ambient conditions

- **Ambient temperature:** -25 to +55°C
- **Storage temperature:** -25 to +70°C
- **Transport temperature:** -25 to +70°C
- **Relative humidity:** 15% to 85% (in accordance with IEC 60721-3-3 class 3K3)
- **Pollution degree:** 2 (in accordance with IEC 60664-1)

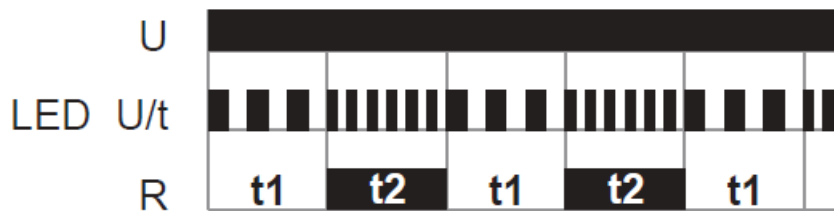
## Weight

- **Single packing:** 106g

## Functions

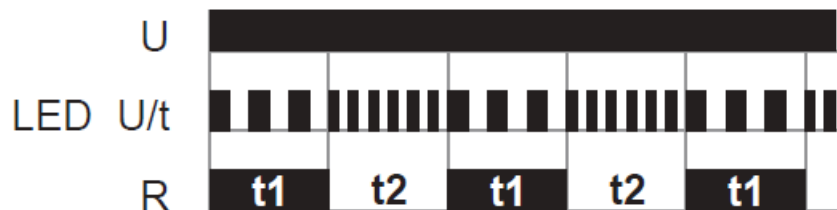
### Asymmetric flasher pause first (lp)

When the supply voltage U is applied, the set interval t1 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, the output relay switches into off-position (yellow LED not illuminated). The output relay is triggered at the ratio of t1:t2 until the supply voltage is interrupted.



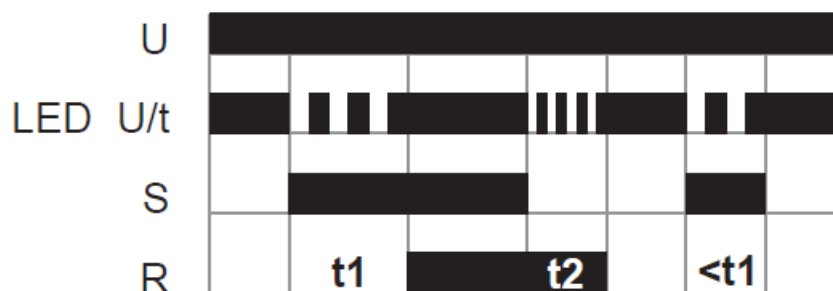
### Asymmetric flasher pulse first (li)

When the supply voltage U is applied, the output relay R switches into on-position (yellow LED illuminated) and the set interval t1 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 t1:t2 until the supply voltage is interrupted.



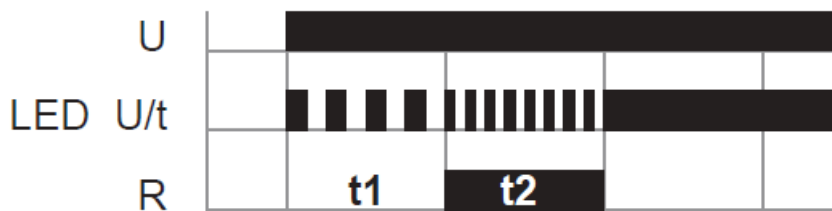
### ON delay and OFF delay with control contact (ER)

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 t1 begins (green LED U/t flashes slowly). After the interval t1 has expired, 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, the output relay switches into off-position (yellow LED not illuminated). If the control contact is opened before the interval t1 has expired, the interval already expired is erased and is restarted with the next cycle.



### ON delay and single shot leading edge voltage controlled (EWu)

When the supply voltage U is applied, the set interval t1 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, the output relay switches into off-position (yellow LED not illuminated). If the supply voltage is interrupted before the interval t1+t2 has expired, the interval already expired is erased and is restarted when the supply voltage is next applied.



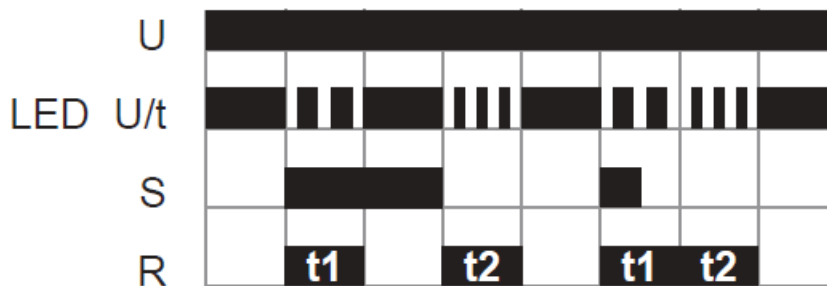
### ON delay and single shot leading edge with control contact (EWs)

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 t1 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, 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.



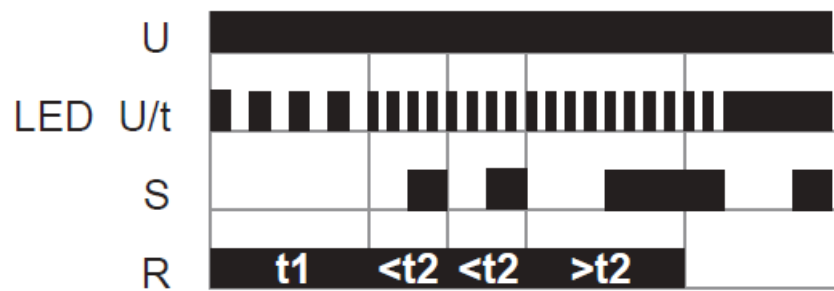
### Single shot leading and single shot trailing edge with control contact (WsWa)

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



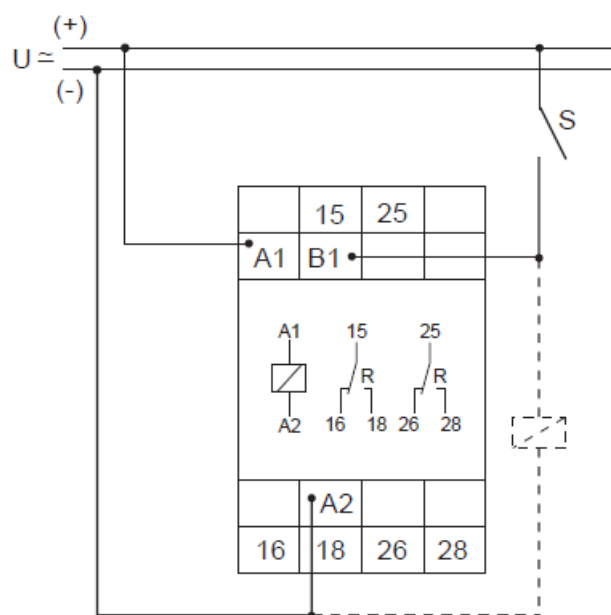
### Pulse sequence monitoring (Wt)

When the supply voltage U is applied, the set interval t1 begins (green LED U/t flashes slowly) and the output relay R switches into on-position (yellow LED illuminated). After the interval t1 has expired, the set interval t2 begins (green LED U/t flashes fast). So that the output relay R remains in on-position, the control contact S must be closed and opened again within the set interval t2. If this does not happen, the output relay R switches into off-position (yellow LED not illuminated) and all further pulses at the control contact are ignored. To restart the function the supply voltage must be interrupted and reapplied.

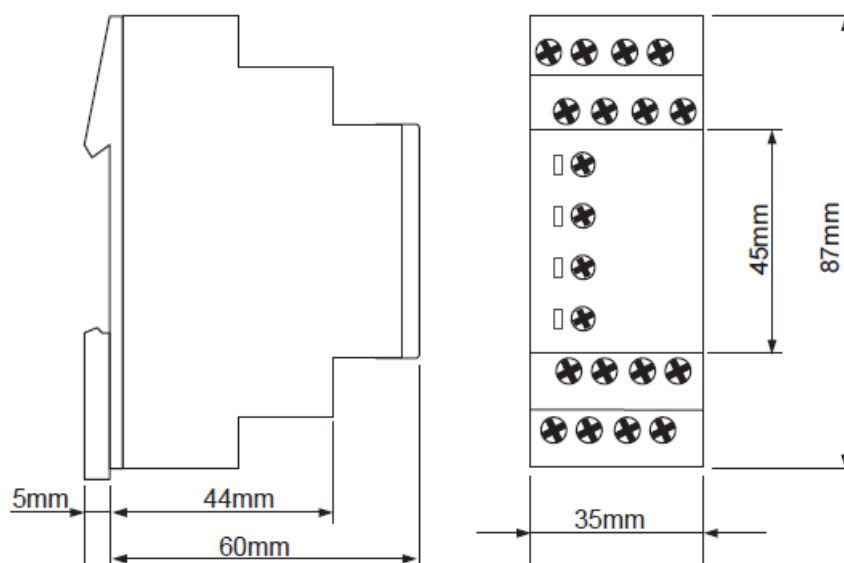


- [www.tele-online.com](http://www.tele-online.com)

## Connections



## Dimensions




## Ordering information

Type	Functions	Supply voltage	Part. No. (PQ 1)
E3ZI20 12-240V a.c./d.c.	Ip, li, ER, EWu, Ws Wa, Wt	12-240V a.c./d.c.	111101

- RELEASE 2012/07
- Subject to alterations and errors
- [www.tele-online.com](http://www.tele-online.com)

**Documents / Resources**

	<p><a href="#">TELE E3ZI20 Timers - Asymmetric Flasher</a> [pdf] Instruction Manual E3ZI20 Timers-Asymmetric Flasher, E3ZI20, Timers-Asymmetric Flasher, Flasher</p>
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**References**

-  [Home - Tele Haase](#)