



tele E1ZM Multi Function Timer User Guide

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tele E1ZM Multi Function Timer



ENYA series

Multifunction

Up to 7 functions 7 time ranges Wide input voltage range 1 change over contact Width 17.5 mm Installation design

Technical data

Functions

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

E ON delay

R OFF delay

Ws Single shot leading edge with control input

Wa Single shot trailing edge with control input

Es ON delay with control input

Wu Single shot leading edge voltage controlled

Bp Flasher pause first

Function sets of the distinct types are according to table ordering information or printing on the unit.

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 ₁

Indicators

- Green LED U/t ON: indication of supply voltage
- Green LED U/t flashes: indication of time period
- Yellow LED R 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 2.5mm² 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

Input circuit

Supply voltage:

terminals A1(+)-A2

- E1Z... 12-240VAC/DC: 12 to 240V a.c./d.c.
- Tolerance: 12V -10% to 240V +10%
- E1Z... 24-240VAC/DC: 24 to 240V a.c./d.c.
- Tolerance: 24V -15% to 240V +10%
- Rated consumption: 4VA (1.5W)
- Rated frequency: a.c. 48 to 63Hz
- Duty cycle: 100%
- Reset time: 100ms
- Residual ripple for d.c.: 10%
- Drop-out voltage: >30% of minimum rated supply voltage
- Overvoltage category: III (in accordance with IEC 60664-1)
- Rated surge voltage: 4kV

Output circuit

1 potential free change over contact

- Contact material: AgNi
- Rated voltage: 250V a.c.
- Switching capacity: 2000VA (8A / 250V a.c.)
- Fusing: 8A fast acting
- Mechanical life: 20 x 10⁶ operations
- Electrical life: 2 x 10⁵ 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
- Min. control pulse length: d.c. 50ms / a.c. 100ms

General data

- Degree of protection: Basic insulation
- Insulation test voltage:
Supply circuit – Output circuit: 1680V
- Interference immunity: Class A
- Prospective current value: 1000A / 8A

Accuracy

- Base accuracy: $\pm 1\%$ of maximum scale value
- Adjustment accuracy: $< 5\%$ of maximum scale value
- Repetition accuracy: $< 0.5\%$ or $\pm 5\text{ms}$
- Voltage influence: –
- Temperature influence: $\leq 0.01\%$ / $^{\circ}\text{C}$

Ambient conditions

- Ambient temperature: -25 to $+55^{\circ}\text{C}$
- Storage temperature: -25 to $+70^{\circ}\text{C}$
- Transport temperature: -25 to $+70^{\circ}\text{C}$
- 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: 72g
- Package 10pcs: 670g per Package

Functions

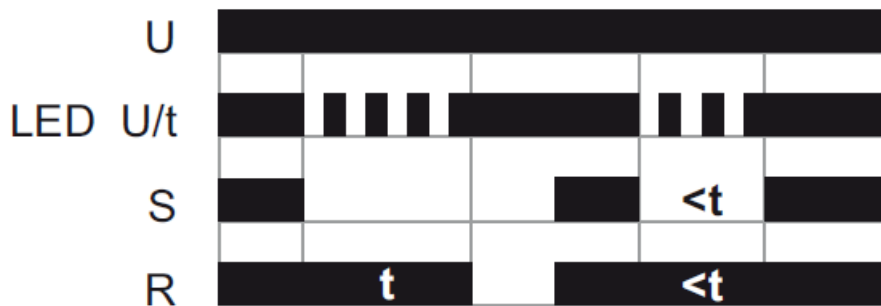
ON delay (E)

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



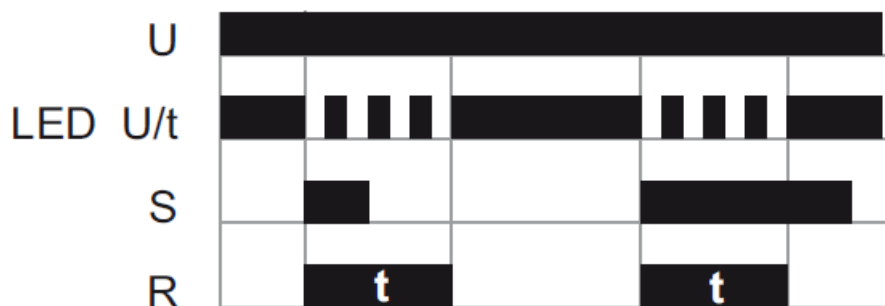
OFF delay (R)

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). If the control contact is opened, the set interval t begins (green LED flashes). After the interval t has expired (green LED U/t 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.



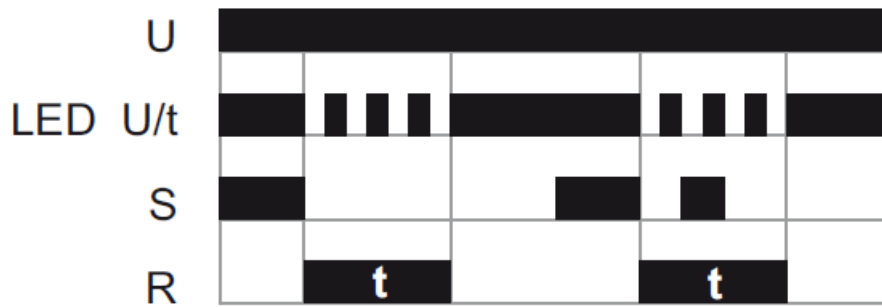
Single shot leading edge with control input (Ws)

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 (green LED U/t illuminated) and the set interval t begins (green LED U/t flashes). After the interval t 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.



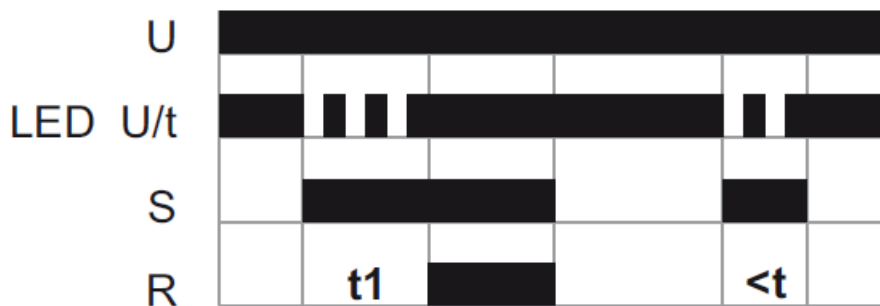
Single shot trailing edge with control input (Wa)

The supply voltage U must be constantly applied to the device (green LED U/t illuminated). Closing the control contact S has no influence on the condition of the output 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 U/t flashes). After the interval t 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 with control input (Es)

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 begins (green LED U/t flashes). After the interval t has expired (green LED U/t 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 next cycle.



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 U/t flashes). After the interval t has expired (green LED U/t 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 is erased and is restarted when the supply voltage is next applied.



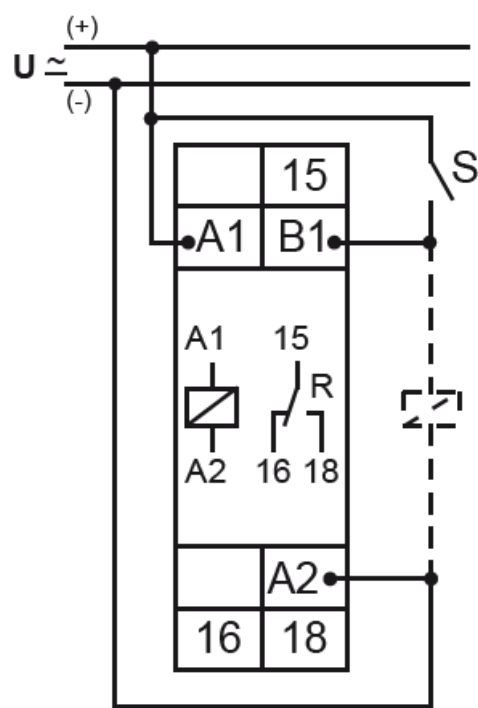
Flasher pause first (Bp)

When the supply voltage U is applied, the set interval t begins (green LED U/t 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.

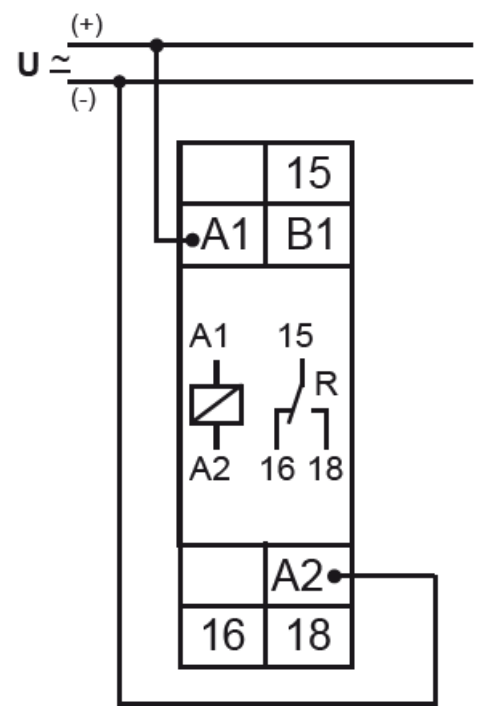


Connections

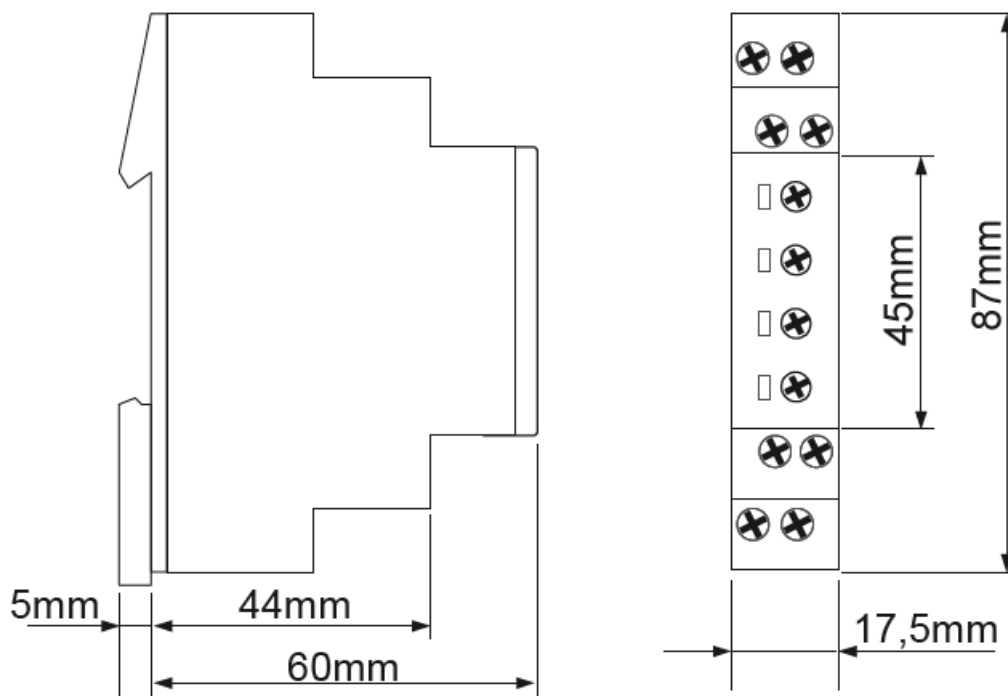
with control input



without control input



Dimensions



Ordering information

Type	Functions	Supply voltage	Art. No. (PQ 1)	Art. No. (PQ 1 0)
E1ZM10 12-240V AC/DC	E, R, Ws, Wa, Es, Wu, Bp	12-240V a.c./d.c.	110100	110100A
E1ZM10 24-240V AC/DC	E, R, Ws, Wa, Es, Wu, Bp	24-240V a.c./d.c.	110200	110200A
E1ZMQ10 24-240V AC/DC	E, R, Wu, Bp	24-240V a.c./d.c.	110202	110202A
E1Z1E10 24-240V AC/DC	E	24-240V a.c./d.c.		110204A
E1Z1R10 24-240V AC/DC	R	24-240V a.c./d.c.		110205A

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Subject to alterations and errors

www.tele-online.com

Documents / Resources

	tele E1ZM Multi Function Timer [pdf] User Guide E1ZM, E1Z1, Multi Function Timer, E1ZM Multi Function Timer, E1ZM10
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References

-  [Home - Tele Haase](#)

Manuals+.