

Timers - Multifunctional

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



Technical data

1. Functions

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

E	ON delay
-	0

R	OFF delay
141	

Single shot leading edge with control input Ws

- Single shot trailing edge with control input Wa WsWa Single shot leading edge and single shot trailing edge
- with control input
- Wu Single shot leading edge voltage controlled
- Wt Pulse sequence monitoring

2. Time ranges

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

3. Indicators

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

5. Input circuit

24 to 240V AC/DC Supply voltage: Terminals: A1(+)-A2 Tolerance: -15% to +10% Rated consumption: 4VA (1.5W) AC 48 to 63Hz Rated frequency: 100% Duration of operation: Reset time: 100ms Residual ripple of DC: 10% Drop-out voltage: >30% of minimum rated supply voltage III (in accordance with IEC 60664-1) Overvoltage category: Rated surge voltage: 4kV

6. Output circuit

1 potential free change over contact Rated voltage: Switching capacity: Fusing: Mechanical life: Electrical life: Switching frequency:

Overvoltage category: Rated surge voltage:

7. 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: DC 50 ms / AC 100 ms

4kV

250V AC

8A fast acting

2000VA (8A / 250V)

20 x 10⁶ operations

max. 6/min at 1000VA resistive load

(in accordance with IEC 60947-5-1)

III. (in accordance with IEC 60664-1)

2 x 10⁵ operations at 1000VA resistive load

8. Accuracy

Base accuracy: Adjustment accuracy: Repetition accuracy: Voltage influence: Temperature influence: ±1% of maximum scale value <5% of maximum scale value <0.5% or ±5ms

≤0.01% / °C

-25 to +55°C

-25 to +70°C

9. Ambient conditions

Ambient temperature: Storage temperature: Transport temperature: Relative humidity:

-25 to +70°C 15% to 85% (in accordance with IEC 60721-3-3 class 3K3) 2, if built in 3 (in accordance with IEC 60664-1)

10. Weight

Pollution degree:

Single packing: Package 10pcs: 72g 670g per Package

E1ZMW10

E1ZMW10

Functions

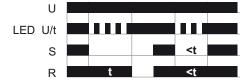
ON delay (E)

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.



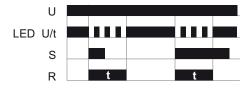
OFF delay (R)

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



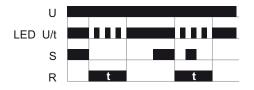
Single shot leading edge with control input (Ws)

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 R 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.



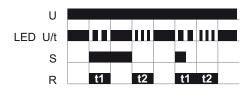
Single shot trailling edge with control input (Wa)

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 S is opened, 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 ouput relay R switches into off-position (yellow LED not illuminated). During the interval, the control contact S can be operated any number of times. A further cycle can only be started when the cycle run has been completed.



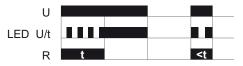
Single shot leading and single shot trailing edge with control input (WsWa)

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 t begins (green LED U/t flashes). After the interval t has expired, the output relay R switches into off-position (yellow LED not illuminated). If the control contact S is opened, the output relay R switches into on-position again (yellow LED illuminated) and the set interval t begins (green LED U/t flashes). After the interval t begins (green LED U/t flashes). After the interval t begins (green LED U/t flashes). After the interval t begins (green LED U/t flashes). After the interval t has expired the output relay R switches into off-position (yellow LED not illuminated). During the interval, the control contact S can be operated any number of times.



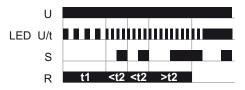
Single shot leading edge voltage controlled (Wu)

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 R 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 R switches into off-position. The interval already is erased and is restarted when the supply voltage is next applied.



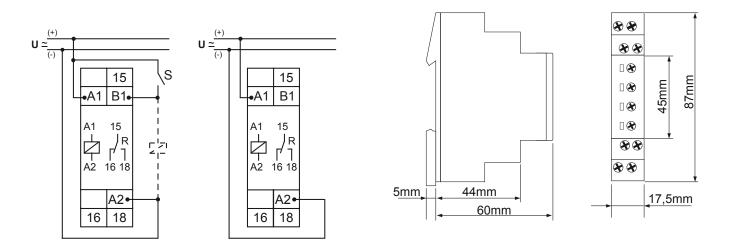
Pulse sequence monitoring (Wt)

When the supply voltage U is applied (green LED U/t 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 U/t flashes). So that the output relay R remains in on-position, the control contact S must be opened and closed again within the set interval t. If this does not happen, the output relay R 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.



Connections

Dimensions



Ordering information

Types	Functions	Supply voltage	Part Nr. (PQ 1)	Part Nr. (PQ 10)
E1ZMW10 24-240V AC/DC	E, R, Ws, Wa, WsWa, Wu, Wt	24-240V AC/DC	-	110206A

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Subject to alterations and errors

