Timer

E1Z1ER10
Part No. 110208A

ENYA series
2-time delay, on-delay and off-delay
7 time ranges
Wide input voltage range
1 change over contact
Width 17.5 mm
Installation design

Technical data

1. Functions
ER ON delay and OFF delay with control contact

2. 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

3. 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

4. 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

5. Input circuit

Supply voltage:	24 to 240V a.c./d.c terminals A1(+)-A2
Tolerance:	-15% to +10%
Rated consumption:	6VA (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

6. Output circuit
1 potential free change over

Rated voltage:	250V a.c.
Switching capacity:	2000VA (8A / 250V a.c.)
Fusing:	8A fast acting
Mechanical life:	20 x 10^6 operations
Electrical life:	2 x 10^5 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

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:	d.c. 50ms / a.c. 100ms

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
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)

10. Weight

Package 10 pcs:	670g per Package

MARDAG

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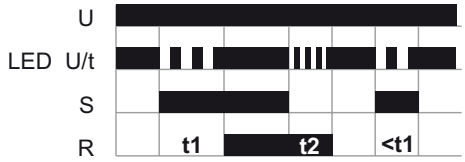
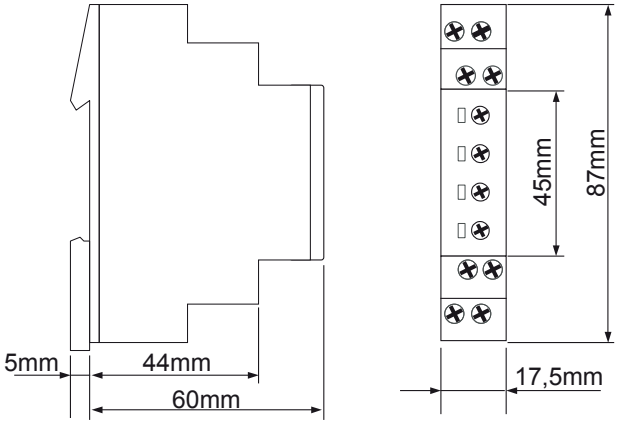
Functions

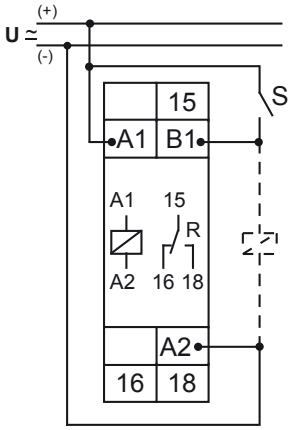
ON delay and OFF delay with control contact (ER)
The supply voltage U must be constantly applied to the device (green LED U/t illuminated). When the control contact S is closed, the set interval t1 begins (green LED U/t flashes slowly). After the interval t1 has expired, the output relay R switches into 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.



Dimensions



Connection



Ordering information

Type	Functions	Supply voltage	Art. No. (PQ 1)	Art. No. (PQ 10)
E1Z1ER10 24-240V AC/DC	ER	24-240V a.c./d.c	-	110208A

Subject to alterations and errors