## ENYA series

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


## Technical data


6. Output circuit

2 potential free change over contacts
Rated voltage: 250V AC
Switching capacity: 2000VA (8A / 250V)
Fusing:
Mechanical life:
Electrical life:
Switching frequency:
Overvoltage category:
Rated surge voltage:
8A fast acting
$20 \times 10^{6}$ operations
$2 \times 10^{5}$ operations at 1000 VA resistive load max. $6 / \mathrm{min}$ at 1000 VA resistive load (in accordance with IEC 60947-5-1) III (in accordance with IEC 60664-1)
4 kV

## 7. Control input

Input not potential free: terminals A1-B1
Loadable: yes
Max. line length: $\quad 10 \mathrm{~m}$
Trigger level (sensitivity): automatic adaption to supply voltage Max. control pulse length: DC $50 \mathrm{~ms} / \mathrm{AC} 100 \mathrm{~ms}$
8. Accuracy

Base accuracy: $\quad \pm 1 \%$ of maximum scale value
Adjusting accuracy:
Repetition accuracy:
Voltage influence:
Temperature influence: $\leq 0.01 \% /{ }^{\circ} \mathrm{C}$
9. Ambient conditions

Ambient temperature: -25 to $+55^{\circ} \mathrm{C}$
Storage temperature: $\quad-25$ to $+70^{\circ} \mathrm{C}$
Transport temperature: -25 to $+70^{\circ} \mathrm{C}$
Relative humidity: $\quad 15 \%$ to $85 \%$
(in accordance with IEC 60721-3-3 class 3K3)
Pollution degree: $\quad 2$ if built in 3 (in accordance with IEC 60664-1)
10. Weight

Single packing: $\quad 106 \mathrm{~g}$

## Functions

Asymmetric flasher pause first (lp)
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 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 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 $\mathrm{t} 1: \mathrm{t} 2$ 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 t 1 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 $t 1$ 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, the output relay switches into off-position (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.


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 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 t 2 begins (green LED U/t flashes fast). After the interval t2 has expired, the output relay switches into offposition (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 $t 1$ begins (green LED U/t flashes slowly) and the output relay $R$ switches into on-position (yellow LED illuminated). After the interval t 1 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 t 2 . 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.


## Connections



Dimensions


## Ordering Informations

| Types | Functiones | Supply Voltage | Part. No. (PQ 1) | Part. No. (PQ 10) |
| :--- | :--- | :--- | :--- | :--- |
| E3ZI20 12-240V AC/DC | Ip, li, ER, EWu, WsWa, Wt | $12-240 \mathrm{~V}$ AC/DC | 111101 |  |

