

Timers - Multifunction

- **KAPPA** series **5** Functions
- 4 time ranges
- Wide input range
- 2 change over contacts
- Width 35mm
- Installation design



Read and understand these instructions before installing, operating or maintaining the equipment.



Danger! Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of obvious damage. To be installed by an authorized person.

Technical data

1. Functions

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

E ON delay A OFF delay without auxiliary voltage nWa Maintained single shot trailing edge nWu Maintained single shot leading edge nWuWa Maintained single shot leading and single shot trailined edge
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2. Time ranges ٦

Time range	Adjustment range		
1s	100ms	1s	
10s	1s	10s	
1min	6s	1min	
3min	18s	3min	

3. Indicators Green LED U ON:

indication of supply voltage

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40 Mounted on screw terminal socket 11-pols in accordance with IEC 60067-1-18a (type R11X or ES12) Mounting position: any

5. Input circuit

24 to 240V a.c./d.c. S2(+)-S10 / A1(+)-A2
a.c.: -15% to +10%
d.c.: -10% to +10%
a.c.: 1VA (0.5W)
d.c.: 0.7VA (0.7W)
a.c. 48 to 63Hz
100%
100ms
10%
≥8V
III (in accordance with IEC 60664-1)
4kV

6. Output circuit

2 potential free change over contacts Rated voltage: Switching capacity: Fusing: Mechanical life: Electrical life:

250V a.c. 2000VA (8A / 250V) 8A fast acting 20 x 10⁶ operations 2 x 10⁵ operations

Switching frequency:

Overvoltage category: Rated surge voltage:

7. Accuracy

Base accuracy:

±1% of maximum scale value ≤10% for time range 1s Adjustment accuracy: <5% of maximum scale value 1% or 100ms Repetition accuracy: Voltage influence:

4kV

at 1000VA resistive load

max. 6/min at 1000VA resistive load

(in accordance with IEC 60947-5-1)

III (in accordance with IEC 60664-1)

Temperature influence: ≤0.02% / °C

8. 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)

Note:

After transport the output relay maybe in any position. The correct operation will be given after the first cycle.

K3ZA20

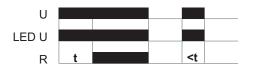
K3ZA20

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 without auxiliary voltage (A)

When the supply voltage U is supplied, the output relay R swiches into on-position (green LED U illuminated). If the supply voltage is interrupted (green LED U not illuminated), the set interval t begins. After the set interval t has expired the output relay R switches into off-position.

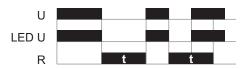
If the supply voltage is reconnected before the interval t has expired the interval already is erased and is restarted with the next cycle.



Maintained single shot trailing edge (nWa)

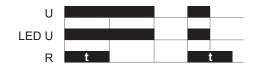
When the supply voltage U is supplied, the output relay R remains into off-position (green LED U illuminated). As soon as the supply voltage is interrupted the output relay switches into on-position and the set interval t begins (green LED not illuminated). After the set interval t has expired the output relay switches into off-position.

When the supply voltage is reconnected before the interval t has expired, the unit continue to perform the actual single shot.



Maintained single shot leading edge (nWu)

When the supply voltage U is applied (green LED U illuminated), the output relay R switches into on-position and the set interval t begins (green LED U/t flashes). After the interval t has expired the output relay switches into off-position. This status remains until the supply voltage is interrupted. If the supply voltage is reconnected before the interval t has expired, the unit continue to perform the actual single shot.

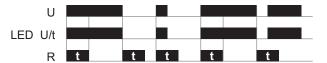


Maintained single shot leading and trailing edge (nWuWa)

When the supply voltage U is applied, the output relay R switches into on-position and the set interval t begins (green LED U illuminated). After the interval t has expired the output relay switches into off-position.

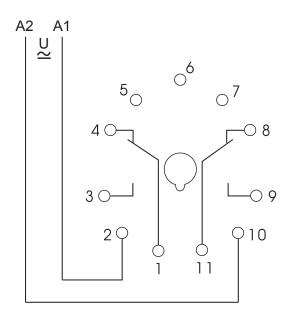
As soon as the supply voltage is interrupted the output relay switches into on-position again and the set interval t begins (green LED not illuminated). After the set interval t has expired the output relay switches into off-position.

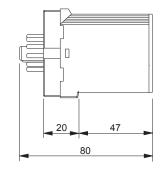
If the supply voltage is interrupted (nWu) or reconnected (nWa) before the interval t has expired the unit continue to perform the actual single shot.

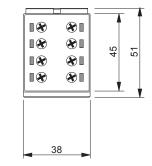


Connections









Ordering information

Туре	Functions	Supply Voltage	Part. No.
K3ZA20 3min 24-240V AC/DC	E, A, nWa, nWu, nWuWa	24-240V a.c./d.c.	135400



Subject to alterations and errors

