



### Timing relay - multifunction

Status: **Available** Data sheet created: **01.07.2025**

Item Number: 135200 - Series: Kappa - EAN: 9008662006492



- ✓ Time relay series KAPPA
- ✓ Multifunction
- ✓ 7 functions
- ✓ 7 time ranges
- ✓ power supply 12-240V AC/DC
- ✓ 2 changeover contacts
- ✓ Pluggable on 11-pin socket
- ✓ width 38mm
- ✓ cap dimension 45mm

### Description

Precise and reliable switching and control in industrial and commercial applications.

### General information

<b>Short description</b>	Multifunction (7 fct.), 2 change-over contacts, 12-240V AC/DC, control cont. potential-free
<b>Item Number</b>	135200
<b>EAN</b>	9008662006492
<b>Main category</b>	Timing Relays
<b>Series</b>	Kappa
<b>Type</b>	K3ZM20P 12-240V AC/DC
<b>Design</b>	Industrial design (plug-in)
<b>Supply</b>	12-240V AC/DC
<b>Dimensions</b>	38 x 51 x 80 mm



## Functions and measurands

The selection of the time function must be made in the de-energized state.

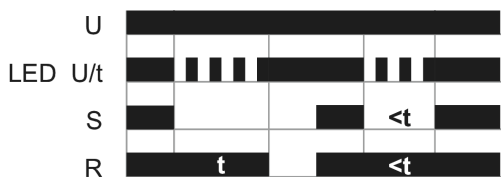
Amount of functions

7



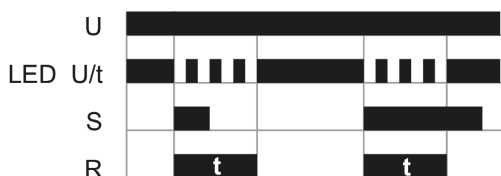
### ON delay (E)

When the supply voltage U is applied, the set time t starts to run (green LED U/t flashes). After the time t has elapsed (green LED U/t illuminated), the output relay R switches into on-position (yellow LED illuminated). This state remains until the supply voltage is interrupted. If the supply voltage is interrupted before the time t has elapsed, the time that has already elapsed is deleted and restarted when the supply voltage is next applied.



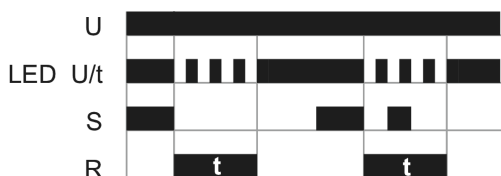
### OFF delay with control input (R)

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 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). If the control contact is closed again before the interval t has expired, the interval already expired is erased and is restarted.



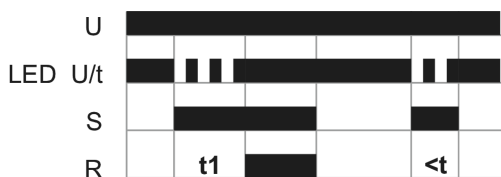
### Single shot leading edge with control input (Ws)

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.



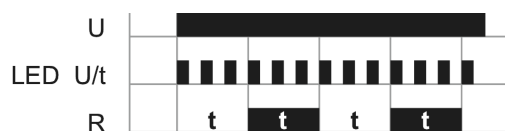
### ON delay with control input (Es)

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.

**Time ranges**

Number Of Areas	7		
Time ranges	Time range	Adjustment range	
	1s	50ms	1s
	10s	500s	10s
	1min	3s	1min
	10min	30s	10min
	1h	3min	1h
	10h	30min	10h
	100h	5h	100h

**Indicators**

Supply/time lapse 1	Green LED U/t ON: Supply voltage applied
Supply/time lapse 3	Green LED U/t flashes: Display of time elapsed t
Relay state	Yellow LED ON/OFF: output relay position

**Mechanical design**

Housing material	made of self-extinguishing plastic
Housing - protection degree	IP40
Mounting	11-pole plug-in socket according to IEC60067-1-18a (type R11X or ES12)
Mounting position	any

**Supply circuit**

Terminals/connections	S2(+)-S10 / A1(+)-A2
Supply voltage d.c.	12 ... 240 V
Supply voltage tolerance d.c.	-10% ... +10%
Supply voltage a.c.	12 ... 240 V
Supply voltage tolerance a.c.	-10% ... +10%
Rated frequency [Hz]	a.c. 48 ... 63 Hz
Rated consumption a.c.	2 W / 6 VA
Residual ripple	d.c. 10%
Drop-out voltage	>30% of the min. supply voltage
Overvoltage category	III (IEC 60664-1)
Rated surge voltage	4 kV



## Output circuit

Type	Relay
Contact 1	1 changeover contacts
Terminals 1	S1 - S3 - S4
Contacts 2	1 changeover contact
Terminals/connections 2	S8-S9-S11
Rated voltage	250 V a.c.
Contacts material	AgNi
Fuse Protection	8 A quick
Mechanical life	20 x 10 <sup>6</sup> Switching cycles
Electrical life	2 x 10 <sup>5</sup> Switching cycles (1000 VA resistive load)
Switching frequency	max. 6/min at 1000 VA resistive load (according to IEC 60947-5-1)
Rated surge voltage	4 kV
Overvoltage category	III (nach IEC 60664-1)

## Control input

Control input	with potential
Terminals/connections	Pins S2-S5
Loadable	no, the pins S2-S6 are internally connected, i.e. pin S5 can also be used as a loadable control input.
Maximum line length	10 m
Minimum control pulse length a.c.	100 ms
Minimum control pulse length d.c.	50 ms

## Accuracy

Base accuracy	±1 % from full scale
Adjustment accuracy	<5 % from full scale
Repetition accuracy	<0.5 % or ±5 ms
Temperature influence	≤0.01 % / °C

## Ambient conditions and general specifications

Storage temperature	-25 ... +70 °C
Transport temperature	-25 ... +70 °C
Pollution degree	2, pollution level can be increased by installation in suitable enclosures (according to IEC 60664-1)

## Logistics

Minimum Quantity	1
Tariff Number	85364900
EAN	9008662006492
Country of Origin	AT
Product Weight (g)	90



## Available declarations / conformities

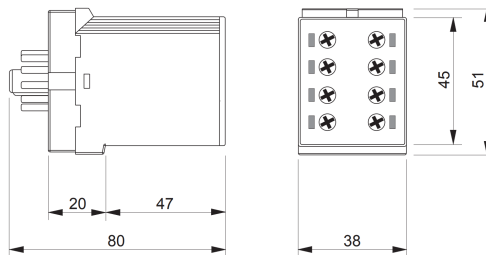
EAC ✓

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## CAD Files

STEP\_K3\_en.STEP [Download file](#)

## Media &amp; drawings



Tele Haase Steuergeräte Ges.m.b.H

Vorarlberger Allee 38

1230 Vienna

Austria

CALL US



+43 / 1 / 614 74 - 0

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support@tele-haase.at

Changes and errors excepted