



### Time relay - Multifunction

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

Item Number: 237010 - Serie: Combi - EAN: 9008662002029



- ✓ Time module COMBI series
- ✓ Multifunction
- ✓ 8 functions
- ✓ 8 time end ranges
- ✓ Supply voltage 24 - 240V AC/DC
- ✓ Can be combined with RT industrial relays and base ES9 or ES12
- ✓ width 35mm

### Description

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

### General information

Short description	Multifunction time module (8 fct.) f. base ES9 and PF-113BE/M (ES12)
Item Number	237010
EAN	9008662002029
Main category	Timing Relays
Series	Combi
Type	COM3T 24-240VAC/DC
Supply	24-240V AC/DC
Dimensions	35 x 12 x 47 mm



## Functions and measurands

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

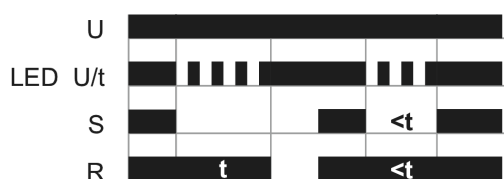
Amount of functions

8



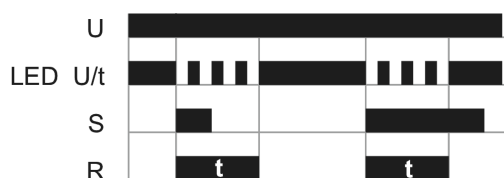
### ON delay (E)

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.



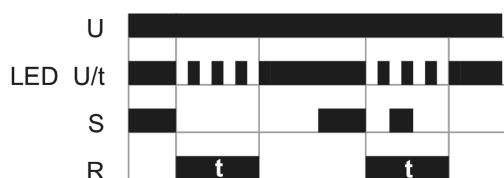
### OFF delay with control input (R)

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.



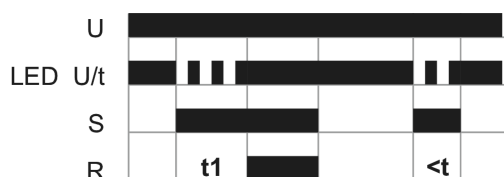
### Single shot trailing edge with control input (Wa)

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.



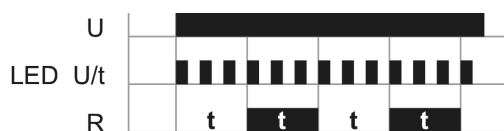
### Single shot leading edge voltage controlled (Wu)

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.



### 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.

**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.

**Flasher pulse first (Bi)**

When the supply voltage U is applied, the set time t begins to run (green LED U/t flashes). After the time t has elapsed, the output relay R drops out (yellow LED R lights up) and the set time t starts running again. After the time t has elapsed, the output relay R drops out (yellow LED R does not light up). The output relay R is activated in a ratio of 1:1 until the supply voltage is interrupted.

**Time ranges**

Number Of Areas	8		
	Time range	Adjustment range	
Time ranges	1s	50ms	1s
	10s	500ms	10s
	1min	500ms	1min
	10min	500ms	10min
	1h	3min	1h
	10h	30min	10h
	1d	72min	1d
	10d	12h	10d

**Indicators**

Supply/time lapse 1	Green LED U ON: Supply voltage applied
Supply/time lapse 2	Green LED U flashes: Display of time elapsed t

**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	A1(+)-A2
Supply voltage d.c.	24 ... 240 V
Supply voltage tolerance d.c.	-15% ... +10%
Rated consumption d.c.	240 V d.c.: 0,765 W; 24 V d.c.: 0,06 W
Supply voltage a.c.	24 ... 240 V
Supply voltage tolerance a.c.	-15% ... +10%
Rated frequency [Hz]	a.c. 45 ... 65 Hz
Rated consumption a.c.	230 V a.c.: 0,52 W / 0,94 VA; 24 V a.c.: 54 mW / 80 mVA
Residual ripple	d.c. 10%
Drop-out voltage	> 10V AC bzw. 10V DC

**Ausgangskreis**

Info	Depending on the industrial relay used
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### Control input

Control input	with potential
Terminals/connections	A1-B1
Loadable	yes, minimum load 1VA (0.5W) connected in parallel, terminals A2-B1
Maximum line length	10 m (twisted)
Minimum control pulse length a.c.	80 ms
Minimum control pulse length d.c.	60 ms

### Accuracy

Base accuracy	±1 % (from full scale)
Adjustment accuracy	≤5 % (vom Einstellwert)
Repetition accuracy	±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

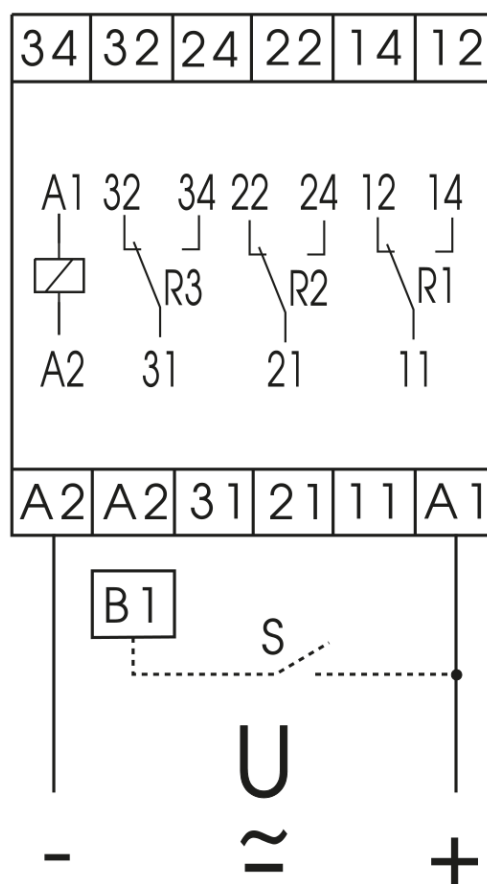
Minimum Quantity	1
Tariff Number	85364900
EAN	9008662002029
Country of Origin	AT
Product Weight (g)	14

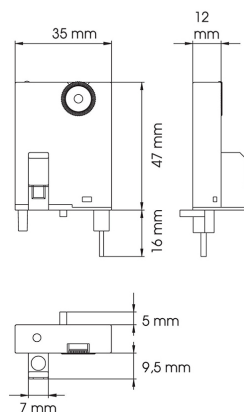
### Available declarations / conformities

EAC	✓
CE	✓
UL	<a href="#">Open document</a>
c(UL)	<a href="#">Open document</a>
REACH	<a href="#">Open document</a>
WEEE	<a href="#">Open document</a>
TSCA	<a href="#">Open document</a>
RoHs	<a href="#">Open document</a>
CMRT	<a href="#">Open document</a>



### Media & drawings





**Tele Haase Steuergeräte Ges.m.b.H**  
Vorarlberger Allee 38  
1230 Vienna  
Austria

CALL US



+43 / 1 / 614 74 - 0

ONLINE SUPPORT



support@tele-haase.at

Changes and errors excepted