V2ZM10P 12-240V AC/DC

Manufacturer data sheet: V.075

Time relay - multifunction

Status: Available Data sheet created: 01.07.2025

Item Number: 125600 - **Serie:** Veo - **EAN:** 9008662008472



- Time relay series VEO
- Multifunction
- 10 functions
- 10 time ranges
- supply voltage 12-240V AC/DC
- 1 changeover contact
- width 22,5mm

Description

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

General information

Short description	Multifunction (10 fct.), 1 change-over contact, 12-240V AC/DC, push-in terminal
Item Number	125600
EAN	9008662008472
Main category	Timing Relays
Series	Veo
Type	V2ZM10P 12-240V AC/DC
Design	Compact industrial design
Supply	12-240V AC/DC
Dimensions	22.5 x 67 x 76 mm

Functions and measurands

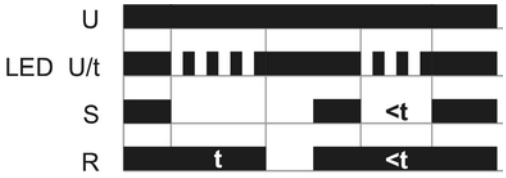
The selection of the time function must be made in the de-energized state.

Amount of functions 10



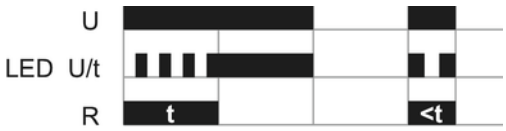
ON delay (E)

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.



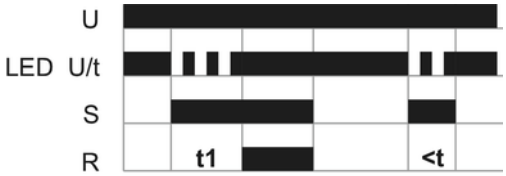
OFF delay with control input (R)

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 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.



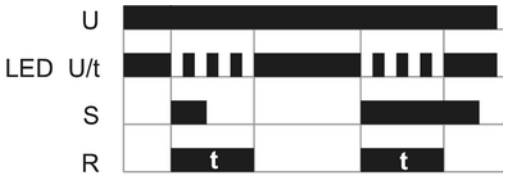
Single shot leading edge voltage controlled (Wu)

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.



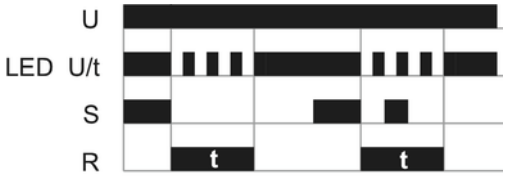
ON delay with control input (Es)

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.



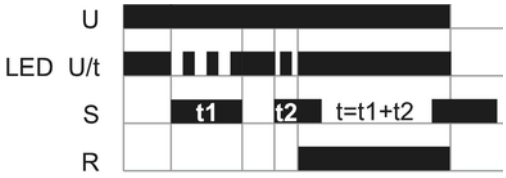
Single shot leading edge with control input (Ws)

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.



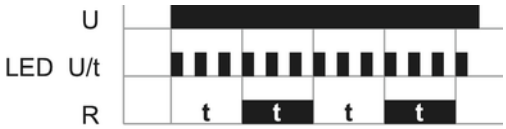
Single shot trailing edge with control input (Wa)

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 ouput 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.



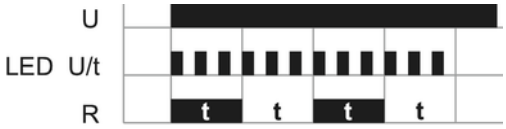
Additive ON delay (Ec)

When the supply voltage U is applied, the release for the interval starts (green LED U/t illuminated). When the control contact S is closed, the set interval t begins (green LED U/t flashes). If the control contact S is opened during the set interval t, the interval stops (green LED U/t illuminated), and the already expired interval is stored. During the lapse of time the control contact can be opened or closed as often as required. If the sum of the periods, in which the control contact S is closed reaches the set interval t the output relay R switches into on-position (yellow LED R illuminated). The interval is stopped (green LED U/t illuminated) and a further activation of the control contact S remains without effect. By interrupting the supply voltage, the device will be reset. A possibly expired time t is deleted.



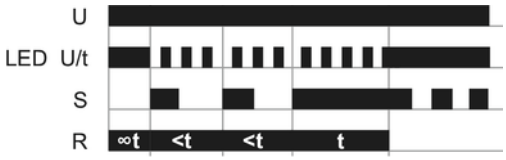
Flasher pause first (Bp)

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.



Pulse sequence monitoring (Wt)

When the supply voltage U is applied (green LED U/t illuminated) the output relay R is energised (yellow LED lights up). With the closing contact S closes, the set time t begins to run (green LED U/t flashes). LED U/t flashes). In order for the output relay R to remain energised, the control contact contact S must be opened within the set time t and closed again. closed again. If this does not succeed, the output relay R drops out and all further pulses on the control contact S are ignored. To restart the To restart the function, the supply voltage must be interrupted and reapplied. and apply it again.

Time ranges

Number Of Areas	10		
Time ranges	**Time range**	**Adjustment range**	
	1s	50ms	1s
	3s	0,15s	3s
	10s	0,5s	10s
	30s	1,5s	30s
	60s	3s	60s
	180s	9s	180s
	10min	0,5min	10min
	60min	3min	60min
	10h	0,5min	10h
	100h	5h	100h

Indicators

Supply/time lapse 1	Green LED U/t ON: Supply voltage applied
Supply/time lapse 2	Green LED U/t flashes: Display of timeout t
Relay state	Yellow LED ON/OFF: position of output relay

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Mechanical design

Housing material	PA 66, self-extinguishing plastic, class V-0
Housing - protection degree	IP40
Mounting	top hat rail TH 35 7,5-15 according to IEC 60715:2017 / EN 60715:2017
Terminals/connections	Push-in clamp
Terminals - protection degree	IP20
Mounting position	any
Stripping length	8 mm
Max. Tightening Torque	1 Nm
Terminal capacity	• flexible with ferrule 0.25 ... 1.5 mm² (24 AWG ... 16 AWG) • flexible with ferrule with collar 0.25 ... 0.75 mm² (24 AWG ... 19 AWG) • flexible without ferrule 0.2 ... 1.5 mm² (24 AWG ... 16 AWG) • rigid 0.2 ... 1.5 mm² (24 AWG ... 16 AWG)

Supply circuit

Terminals/connections	A1-A2
Supply voltage d.c.	12 ... 240 V
Supply voltage tolerance d.c.	-10% ... +10%
Stand-by consumption d.c.	24 V d.c. typ. 0,03 W / 0,09 VA
Supply voltage a.c.	12 ... 240 V
Supply voltage tolerance a.c.	-10% ... +10%
Rated frequency [Hz]	a.c. 50 ... 60 Hz
Rated consumption a.c.	230 V a.c.: typ. 0,4 W / 0,75 VA
Drop-out voltage	>= 7 V
Overvoltage category	III (IEC 60947-5-1)
Rated surge voltage	6 kV
Isolation test voltage	3200 V

Output curcuit

Type	Relay
Contact 1	1 changeover contacts
Terminals 1	15-16-18
Maximum switching voltage	400 V AC
Minimum Switch Voltage/Current	12 V /10 mA
Rated voltage	250 V (IEC 60947-5-1)
Rated current 1	AC-1 8 A / 250 V (IEC 60947-5-1)
Rated current 2	AC-15 1,5 A / 240 V (B300) (IEC 60947-5-1)
Rated current 3	DC-12 8 A / 24 V (IEC 60947-5-1)
Rated current 4	DC-13 0,1 A / 250 V (IEC 60947-5-1)
conditional short-circuit current	1000 A Eff
Contacts material	AgNi
Fuse Protection	8 A quick
Mechanical life	30 x 10^6 Switching cycles
Electrical life	100 x 10^3 Switching cycles (AC-1)
Switching frequency	1200/min without load
Switching frequency 2	6/min with load
Rated surge voltage	6 kV
Overvoltage category	III (nach IEC 60664-1)

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Control input

Terminals/connections	A1-B1
Type	voltage-controlled
Function	Function start
Control voltage	see supply voltage
Loadable	Yes
Minimum control pulse length a.c.	50 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

Standards

Ambient conditions and general specifications

Storage temperature	-40 ... +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	9008662008472
Country of Origin	AT
Product Weight (g)	75

Available declarations / conformities

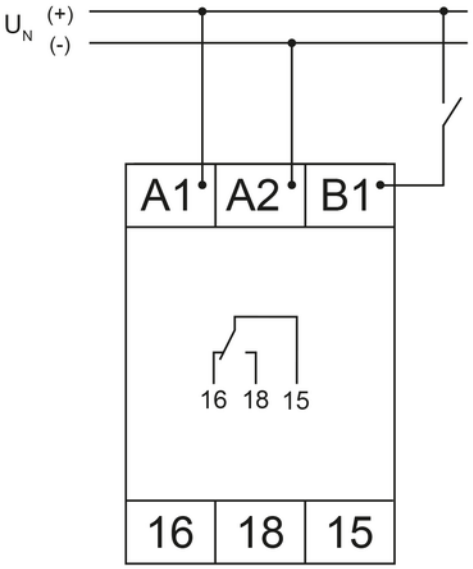
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CE	Open document
REACH	Open document
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TSCA	Open document
RoHs	Open document
CMRT	Open document

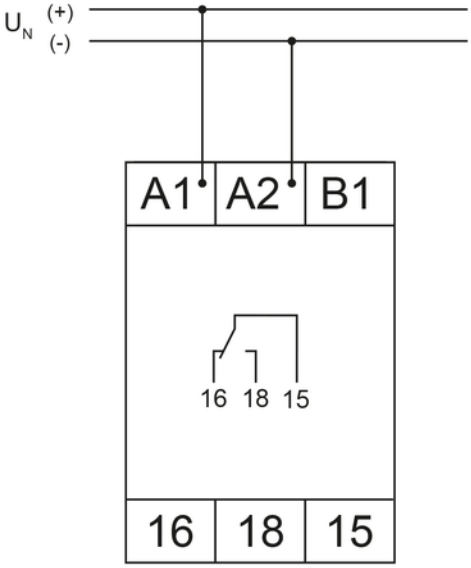
CAD Files

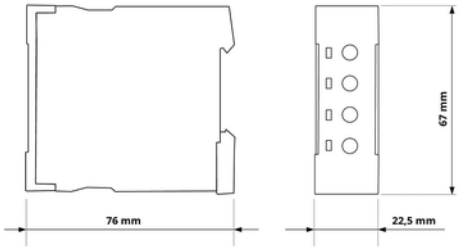
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