

Timer **ZTG - Pulse generator pulse beginning with 2 Changeovers**17.5mm housing

Timing ranges

16 timing ranges adjustable with DIP switches

0.05 - 1 s	0.5 – 10 min
0.15 - 3 s	1.5 – 30 min
0.5 - 10 s	3 – 60 min
1.5 - 30 s	15 – 300 min
3 - 60 s	0.5 –10 h
5 – 100 s	1.5 – 30 h
10 – 200 s	3 – 60 h
15 – 300 s	5 – 100 h

Approvals

Application

Time control

Description

The ZTG Pulse generator (beginning with pulse) offers an independent regulation of the pulse and pause times, which are each adjusted with two independent potentiometers and DIP switches which are located on the front panel of the unit. The timer can operate on either 230V AC using terminals A1 and A2 or 24V DC using terminals A3 and A2. The green LED indicates the connection of the power supply.

Function

The timing begins with the connection of the power supply to the terminals A1 and A2 or A3 and A2. The timing begins with a pulse. This is indicated by the red LED. Upon completion of the selected delay time on the potentiometer t_i , the output contact switches into its rest position. After completion of the selected timing cycle on potentiometer t_p , the output relay again switches into its working position. This sequence will repeat itself as long as the power supply is connected. Should the power supply be interrupted during the reset time, then the relay returns to its original state. This also applies if the power is disconnected during the timing period.

Options

Other timing ranges and voltage available upon request.

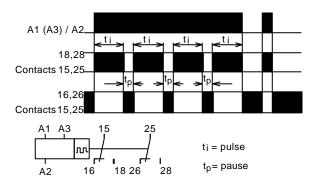
Part number

ZTG pulse – pulse timing range; pause timing range for example:

ZTG pulse - 1,5...30s; 0,5...10h

Please specify timing range with order!!

Function diagram



Mounting

Snap-on mounting using a standard DIN rail EN 50022. The unit is designed to allow side-by-side mounting, with an ambient temperature of < 60°C.



Timer

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17.5mm housing

3 - 60min

Technical data

Supply

Supply voltage A1/A2: 230V AC -15 / +10% A3/A2: 24V AC/DC -15 / +10%

Frequency range: 50 ... 60 / 0Hz
Power consumption: approx. 1.5W with DC;
approx. 6VA with AC

Operating mode: continuous

Adjustment range

Adjustment range pulse time: 0.15 - 3s 1.5 - 30s 15 - 300s 3 - 60min

Adjustment range pause time: 0.15 - 3s1.5 - 30s15 - 300s

Supply voltage influence: < 0.01% over voltage range

Temperature influence: $< 0.01\% / C^{\circ}$ Repetitive accuracy: $\pm 0.2\%$ Recovery time: < 100 ms

Operation indicators

Supply voltage: LED, green Relay in working position: LED, red

Contact

Number of changeovers: 2

Contact material: AgSnO₂
Maximum switching voltage: 250V AC
Maximum switching current: 4A

Drop-off time of switching element: approx. 20ms
Mechanical life: 30 Mio.

Electrical life (with rated load): 0.8 Mio.

General data

Ambient temperature: -25 ... + 60°C Climate resistance: VDE 0435T.2021

Mounting position: any

Vibration resistance: VDE 0435T.2021

Test voltage: 2.5kV

Isolation group: VDE 0110 Group C 250 Protection class: Terminals IP 20

Housing IP 40
Connection terminals: Crosshead screws;

M3.5 self-opening
Connection cross section: Multi-strand wire with wire

sleeves 2 x 2.5mm² single wire 2 x 2.5mm²

Finger touch protection: VDE 0106T.100 and

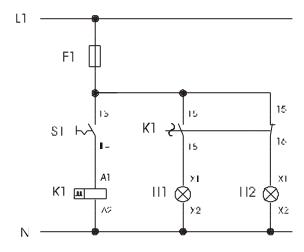
VBG4

Mounting: Symmetrical rail DIN EN 50022

Dimensions I x w x h: 90mm x 17.5mm x

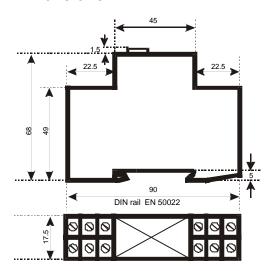
69.5mm Weight: 104g

Example



When the contact S1 closes, the lights H1 and H2 blink alternately to the selected timing cycle (H1 begins with pulse).

Dimensions



Connections

The terminal assignment for the connections is located on the front panel of the relay. **Reading the front panel from top to bottom**, the connections are as follows:

 $\begin{array}{ccc} \text{LED side} & \text{Right:} & \text{nc} - 16 - \text{A3} \\ & \text{Left:} & 18 - 15 - \text{A1} \\ \text{Potentiometer side} & \text{Right:} & \text{nc} - 25 - 28 \\ \end{array}$

Left:

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nc - A2 - 26