Timer

ZTG - Pulse generator pause beginning with 2 Changeovers

17.5mm housing

Application

Time control

Description

The **ZTG Pulse generator (beginning with pause)** 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 starts with connection of the power supply to the terminals A1 and A2 or A3 and A2. The timing begins with a pause. Upon completion of the selected delay time on the potentiometer t_p, the output contact switches to its working position. This is indicated by the red LED. After completion of the selected timing cycle on potentiometer t_i, the output contact switches into its rest position. This sequence will repeat itself as long as the power supply is connected. Should the power supply be interrupted during the duration 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 voltages available upon request.

Part number

ZTG pause – pulse timing range ; pause timing range
for example:
ZTG pause – 1.5...30s ; 0.5...10h
Please specify time range with order!!

Timing ranges

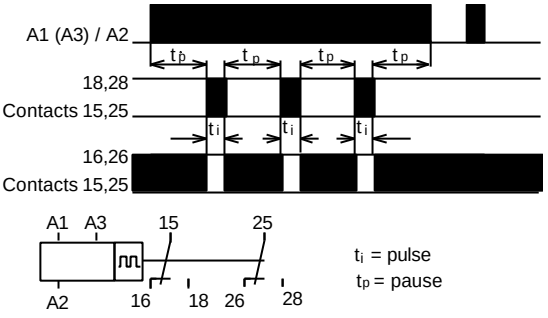
16 timing ranges with adjustable DIP switches

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

CE

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.

HSB Industrieelektronik

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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 – 3s 1.5 – 30s 15 – 300s 3 – 60min
Supply voltage influence:	< 0.01% over voltage range
Temperature influence:	< 0.01% / C°
Repetitive accuracy:	± 0.2%
Recovery time:	< 100ms

Operation indicators

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

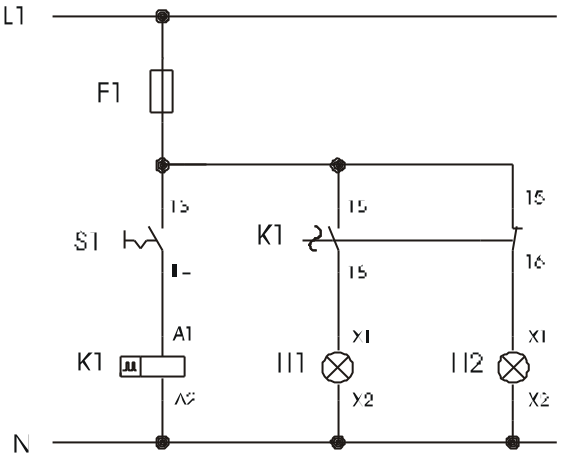
Contact

Number of changeovers:	2
Contact material:	$AgSnO_2$
Maximum switching voltage:	250V AC
Maximum switching current:	4A
Drop-off time of switching element:	approx. 20ms
Mechanical life:	30 Mio.
Electrical (with rated load):	0.8 Mio.

General data

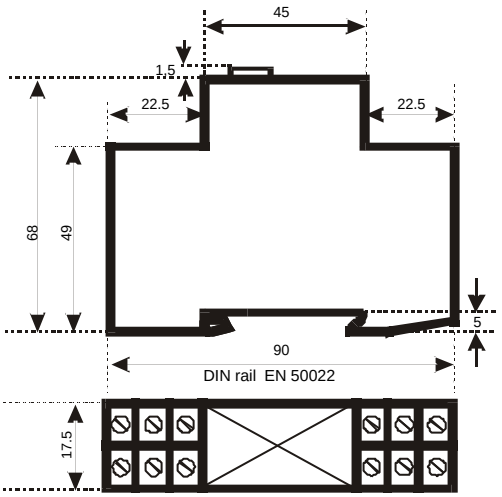
Ambient temperature:	- 25 ... + 60°C
Climate resistance:	VDE 0435T.2021
Mounting position:	any
Vibration resistance:	VDE 0435T.2021
Test voltage:	2.5kV
Isolation group:	VDE 0110 Group C 250
Protection class:	Terminals IP 20 Housing IP 40
Connection terminals:	Crosshead screws; M3.5 self-opening
Connection 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 l 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 in the following order:

LED side	Right:	nc – 16 – A3
	Left:	18 – 15 – A1
Potentiometer side	Right:	nc – 25 – 28
	Left:	nc – A2 – 26

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