



Timer
ZBR2 - Flasher beginning with on with 2 Changeovers
 17.5mm housing

Application

Time control

Description

The **ZBR2 Flasher beginning with on timer** offers 16 different timing intervals in one unit. The timing intervals can be adjusted with DIP switches on the front panel of the relay. 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 to 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 cycle begins with a pulse. After completion of the selected delay time the output relay switches to its rest position. After renewed completion of the selected timing cycle the relay energizes to its working position. The red LED displays the selected interval time of the output relay. This cycle repeats as long as the power supply is connected. Should the power supply be disconnected during the reset time, the timer returns to its original state. This also applies if the supply is disconnected during the timing period.

Options

Other timing ranges and voltages available upon request.

Part number

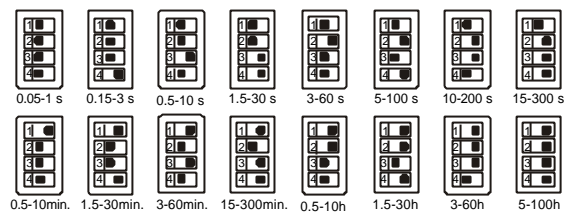
011217 **ZBR2 Flasher beginning with on**
16 Timing ranges/2 Changeovers

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

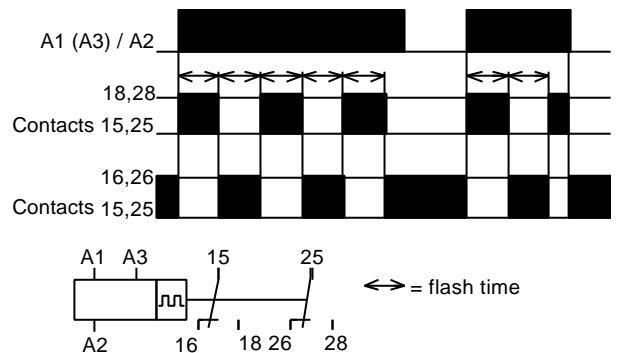
DIP switch adjustments



Approvals



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.

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Technical data

Supply

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

Frequency range: 0 / 50 ... 60Hz
 Power consumption: approx. 1.5W with DC
 approx. 6VA with AC
 Operating mode: continuous
 Supply voltage influence: < 0.01% over voltage range

Temperature influence: < 0.01%/°C
 Recovery time: < 100ms
 Repetitive accuracy: ± 0.2%

Operation indicators

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

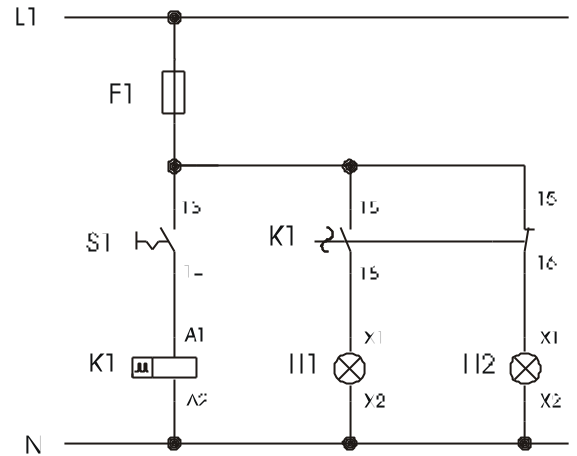
Contact

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

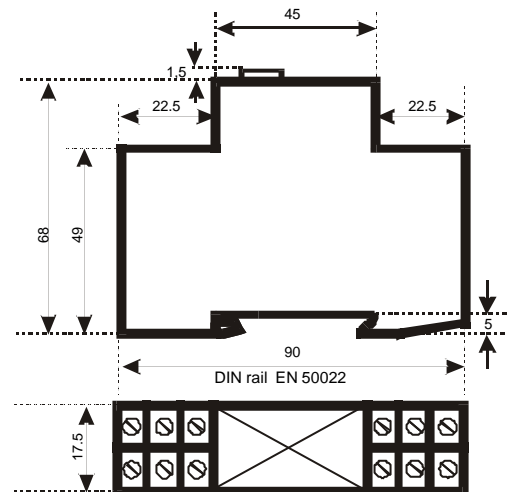
Ambient temperature: - 25 ... + 60°C
 Climate resistance: VDE 0435T.2021
 Mounting position: any
 Vibration resistance: VDE 0435T.2021
 Test voltage: 2.5kV
 Isolation group: VDE 0110 Group
 C 250
 Protection class: Terminals IP 20
 Housing IP 40
 Connection terminals: Crosshead screws; M3.5
 self-opening
 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 l x w x h: 90mm x 17.5mm x 69.5mm
 Weight: 94g

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