

DATA SHEET: TIMERS ZR5B0011



SCHRACK-INFO

- Asymmetric flasher
- 7 time ranges
- Wide input voltage range
- 1 change over contact
- Width 17,5 mm
- Installation design

TECHNICAL DATA

1. Functions

Ip Asymmetric flasher pause first
li Asymmetric flasher pulse first
(A1-B1 bridged)

2. Time ranges

Time range	Adjustment range	
1 s	50 ms	1 s
10 s	500 ms	10 s
1 min	3 s	1 min
10 min	30 s	10 min
1 h	3 min	1 h
10 h	30 min	10 h
100 h	5 h	100 h

3. Indicators

Green LED U/t ON: indication of supply voltage
Green LED U/t slow flashing: indication of time period t1
Green LED U/t fast flashing: indication of time period t2
Yellow LED R ON/OFF: indication of relay output

4. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
Mounted on DIN-rail TS 35 according to EN 50022
Mounting position: any
Shockproof terminal connection according to VBG 4 (PZ1 required),
IP rating IP20
Tightening torque: max. 1 Nm
Terminal capacity:
1 x 0.5 to 2.5 mm² with/without multicore cable end
1 x 4 mm² without multicore cable end
2 x 0.5 to 1.5 mm² with/without multicore cable end
2 x 2.5 mm² flexible without multicore cable end

5. Input circuit

Supply voltage: Terminals A1(+)-A2
Type ZR5B0011
12-240 V AC/DC: 12 to 240 V AC/DC
Tolerance: 12 V-10% to 240 V+10%
Rated consumption: 4 VA (1.5 W)
Rated frequency: AC 48 to 63 Hz
Duty cycle: 100%
Reset time: 100 ms
Residual ripple for DC: 10%
Drop-out voltage: >30% of minimum rated supply voltage
Oversvoltage category: III (according to IEC 60664-1)
Rated surge voltage: 4 kV

6. Output circuit

1 potential free change over contact
Rated voltage: 250 V AC
Switching capacity: 2000 VA (8 A / 250 V)
Fusing: 8 A fast acting
Mechanical life: 20 x 10⁶ operations
Electrical life: 2 x 10⁵ operations
at 1000 VA resistive load
max. 60/min at 100 VA resistive load
max. 6/min at 1000 VA resistive load
(according to IEC 947-5-1)
Oversvoltage category: III. (according to IEC 60664-1)
Rated surge voltage: 4 kV

7. Control input

Input not potential free: Terminals A1-B1
Loadable: yes
Max. line length: 10 m
Trigger level (sensitivity): automatic adaption to supply voltage
Min. control pulse length: DC 50 ms / AC 100 ms

8. Accuracy

Base accuracy: ±1% of maximum scale value
Adjustment accuracy: <5% of maximum scale value
Repetition accuracy: <0.5% or ±5 ms
Voltage influence: -
Temperature influence: ≤0.01% / °C

9. Ambient conditions

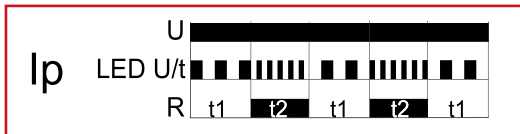
Ambient temperature: -25 to +55 °C (according to IEC 68-1)
Storage temperature: -25 to +70 °C
Transport temperature: -25 to +70 °C
Relative humidity: 15% to 85%
(according to IEC 721-3-3 class 3K3)
Pollution degree: 2, if built in 3
(according to IEC 664-1)
Vibration resistance: 10 to 55 Hz 0.35 mm
(according to IEC 68-2-6)
Shock resistance: 15 g 11 ms
(according to IEC 68-2-27)

FUNCTIONS

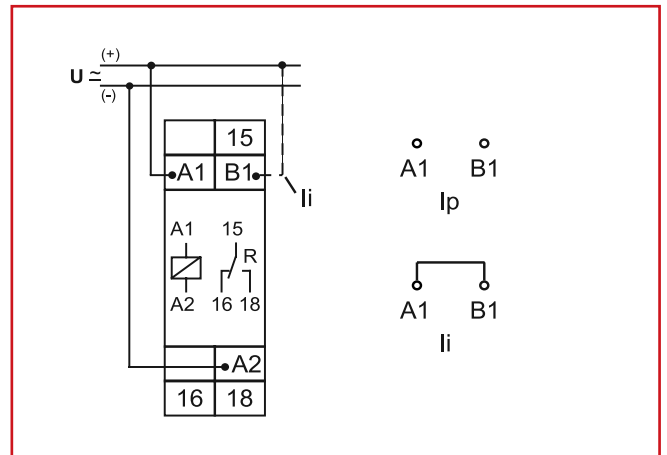
Asymmetric flasher pause first (Ip)

When the supply voltage U is applied, the set interval t1 begins (green LED U/t flashes slowly). After the interval t1 has expired, the output relay R switches into on-position (yellow LED illuminated) and the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired, the output relay switches into off-position (yellow LED not illuminated).

The output relay is triggered at the ratio of t1:t2 until the supply voltage is interrupted.



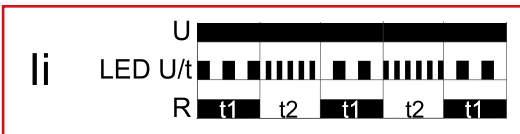
CONNECTIONS



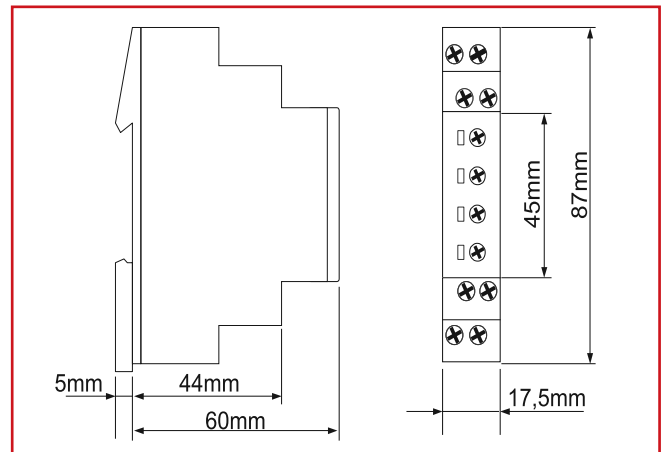
Asymmetric flasher pulse first (Ii)

When the supply voltage U is applied, the output relay R switches into on-position (yellow LED illuminated) and the set interval t1 begins (green LED U/t flashes slowly). After the interval t1 has expired, the output relay switches into off-position (yellow LED not illuminated) and the set interval t2 begins (green LED U/t flashes fast). After the interval t2 has expired, the output relay switches into on-position (yellow LED illuminated).

The output relay is triggered at the ratio of t1:t2 until the supply voltage is interrupted.



DIMENSIONS



WEIGHT

Single packing: 72 g
Package 10 pcs: 670 g per Package

ARTICLE NUMBER

DESCRIPTION	ORDER NO.
Timerelay, 12-240VAC, 1 change over, 8A/250V	ZR5B0011