

## FLASHER TIME RELAY 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

lp 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 mm<sup>2</sup> with/without multicore cable end  
1 x 4 mm<sup>2</sup> without multicore cable end  
2 x 0.5 to 1.5 mm<sup>2</sup> with/without multicore cable end  
2 x 2.5mm<sup>2</sup> 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  
Overvoltage 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 10<sup>6</sup> operations  
Electrical life: 2 x 10<sup>5</sup> operations  
at 1000 VA resistive load  
Switching frequency: max. 60/min at 100 VA resistive load  
max. 6/min at 1000 VA resistive load  
(according to IEC 947-5-1)  
Overvoltage 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)

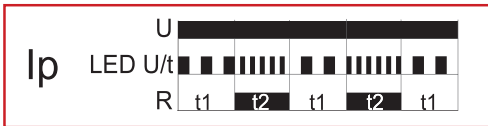
# TIME RELAYS

## FUNCTIONS

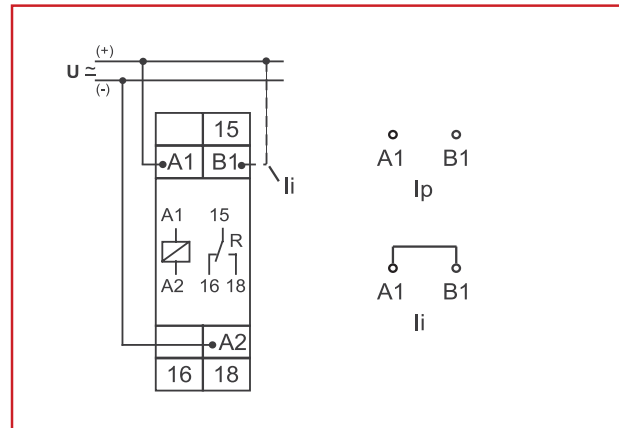
### Asymmetric flasher pause first (Ip)

When the supply voltage  $U$  is applied, the set interval  $t_1$  begins (green LED  $U/t$  flashes slowly). After the interval  $t_1$  has expired, the output relay  $R$  switches into on-position (yellow LED illuminated) and the set interval  $t_2$  begins (green LED  $U/t$  flashes fast). After the interval  $t_2$  has expired, the output relay switches into off-position (yellow LED not illuminated).

The output relay is triggered at the ratio of  $t_1:t_2$  until the supply voltage is interrupted.



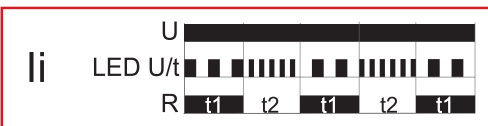
## CONNECTIONS



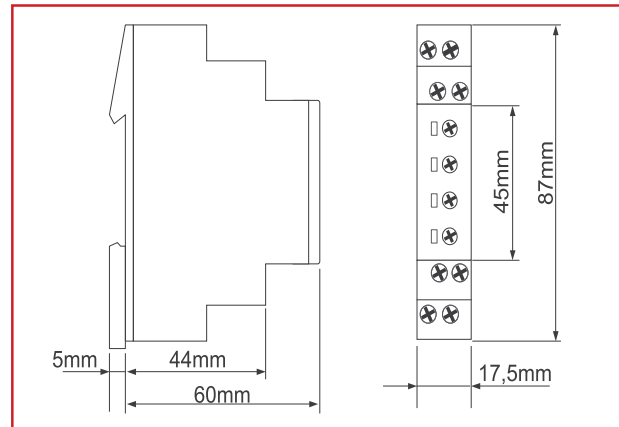
### Asymmetric flasher pulse first (Ii)

When the supply voltage  $U$  is applied, the output relay  $R$  switches into on-position (yellow LED illuminated) and the set interval  $t_1$  begins (green LED  $U/t$  flashes slowly). After the interval  $t_1$  has expired, the output relay switches into off-position (yellow LED not illuminated) and the set interval  $t_2$  begins (green LED  $U/t$  flashes fast). After the interval  $t_2$  has expired, the output relay switches into on-position (yellow LED illuminated).

The output relay is triggered at the ratio of  $t_1:t_2$  until the supply voltage is interrupted.




## DIMENSIONS



## WEIGHT

Single packing: 72 g

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Flasher time relay, 12-240VAC, 1 change over, 8A/250V	9004840459012		ZR5B0011