TIME RELAY ZR5ER011



SCHRACK-INFO

2 functions 7 time ranges Wide input voltage range 1 change over contact Width 17.5 mm Installation design

■ TECHNICAL DATA

1. Functions

The function has to be set before connecting the relay to the supply voltage.

ON delay R OFF delay

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 flashes: indication of time period Yellow LED R ON/OFF: indication of relay outputs

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 Types ZR5..24-240 V AC/DC: 24 to 240 V AC/DC Tolerance: 24 V-15% 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 / 250V) Fusing: 8 A fast acting Mechanical life: 20 x 106 operations Electrical life: 2 x 10⁵ 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: ves Max. line length: 10m

Trigger level (sensitivity): automatic adaption to supply

voltage

Min. control pulse length: DC 50 ms / AC 100 ms

8. Accuracy

±1% of maximum scale value Base accuracy: Adjustment accuracy: <5% of maximum scale value Repetition accuracy: <0.5% or ± 5 ms

Voltage influence:

Temperature influence: ≤0.01% / °C

9. Ambient conditions

-25 to +55 °C Ambient temperature:

(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) 10 to 55 Hz 0.35 mm Vibration resistance: (according to IEC 68-2-6)

Shock resistance: 15 g 11 ms

(according to IEC 68-2-27)



■ FUNCTIONS

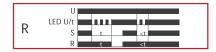
ON delay (E)

When the supply voltage U is applied, the set interval t begins (green LED U/t flashes). After the interval t has expired (green LED U/t illuminated) the output relay R switches into on-position (yellow LED illuminated). This status remains until the supply voltage is interrupted. If the supply voltage is interrupted before the expiry of the interval t, the interval already expired is erased and is restarted when the supply voltage is next applied.



OFF delay (R)

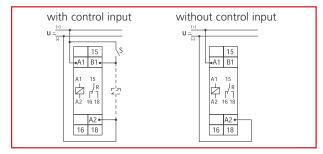
The supply voltage U must be constantly applied to the device (green LED U/t illuminated). When the control contact S is closed, the output relay R switches into on-position (yellow LED illuminated). If the control contact is opened, the set interval t begins (green LED Hashes). After the interval t has expired (green LED U/t illuminated) the output relay switches into off-position (yellow LED not illuminated). If the control contact is closed again before the interval t has expired, the interval already expired is erased and is restarted.



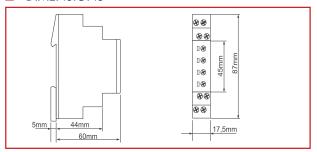
■ WEIGHT

Single packing: 72 g

CONNECTIONS



DIMENSIONS



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Double function time relay E (ON delay) + R (OFF delay), 24-240VAC, 1 change over, 8A/250V	/ 9004840459036	655 0-0	ZR5ER011



