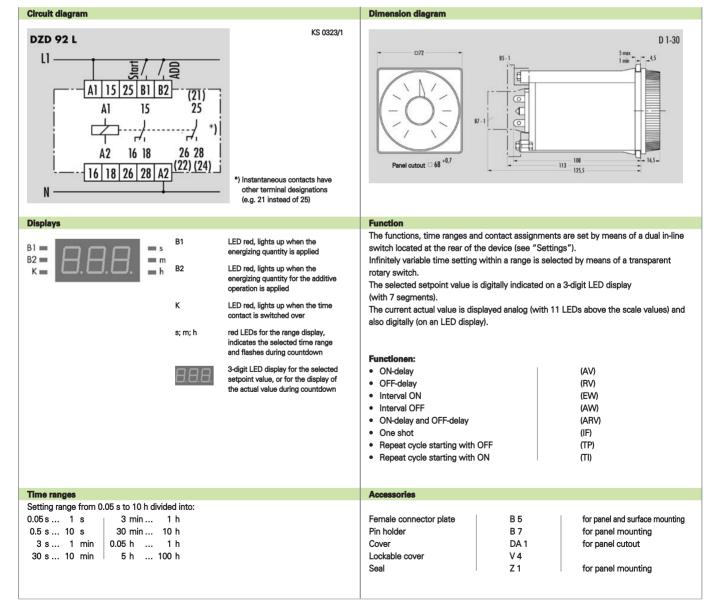
Timer and switching relays Multi-function DZD 92 L

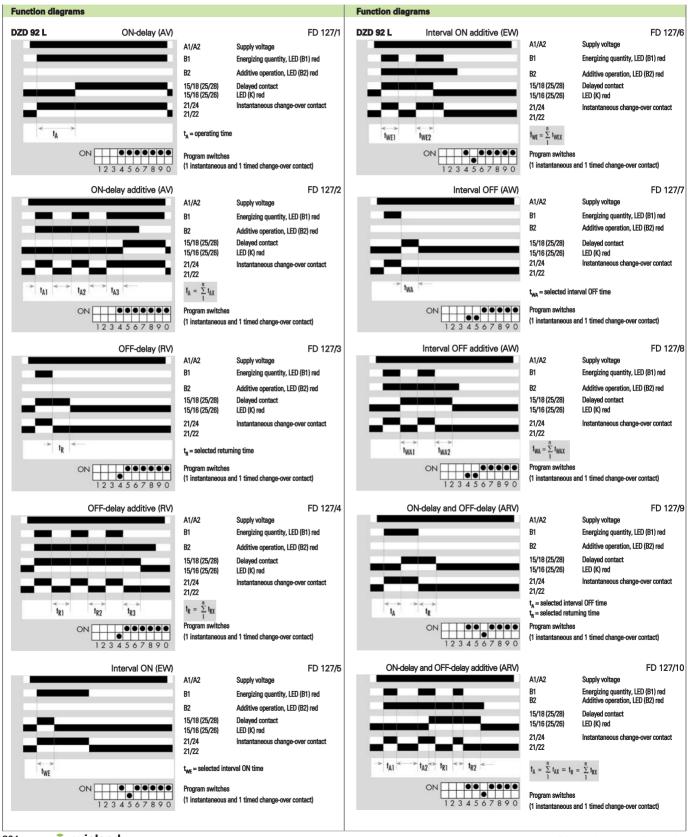
Multi-function multi-range timer relay

- Single voltage
- 8 functions
- Setting range from 0.05 s to 100 h divided into 7 time ranges
- 1 instantaneous and 1 timed change-over contact or 2 timed changeover contacts (selectable)

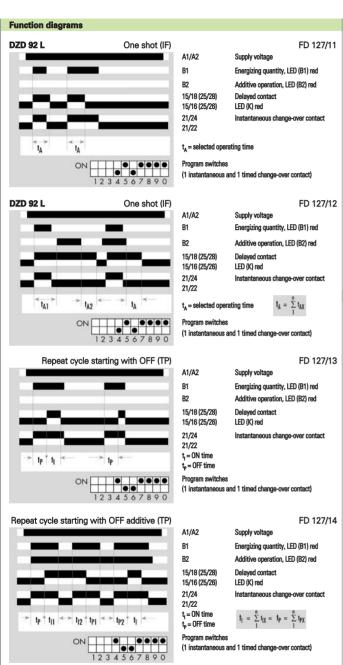




Multi-function DZD 92 L Interface Timer and switching relays



Timer and switching relays Multi-function DZD 92 L



Function diagrams DZD 92 L Repeat cycle starting with ON additive (TI) FD 127/11 A1/A2 Supply voltage Energizing quantity LED (R1) red R1 Additive operation, LED (B2) red 15/18 (25/28) Delayed contact 15/16 (25/26) 21/24 Instantaneous change-over contact t_i = ON time $t_1 = \sum_{i=1}^{n} t_{i|X} = t_p = \sum_{i=1}^{n} t_{p|X}$ > tp2 * tj1 <> tj2 * tp > t1 * tp1 t_p = OFF time ON Program switches (1 instantaneous and 1 timed change-over contact) t₁ = must be > recovery time 1 t, = must be > recovery time 2 = make time, must be > minimum ON time t₂ t₃

Settings

The functions, time ranges and contact assignments are set by means of a dual in-line switch with 10 ON/OFF DIP switches located at the rear of the device.



Position of the switches		1	2	3	4	5	6	7	8	9	0
Time range	Resolution										
0.05 s to 1 s	0.01 s	0	0	0							
0.5 s to 10 s	0.05 s	•	0	0							
3 s to 1 min	0.5 s	0	•	0							
30 s to 10 min	5 s	•	•	0							
3 min to 1 h	0.5 min	0	0	•							
30 min to 10 h	5 min	•	0	•							
5 h to 100 h	0.5 h	0	•	•							
Function											
ON-delay time					0	0	0				
OFF-delay					•	0	0				
Interval ON					0	•	0				
Interval OFF					•	•	0				
ON-delay and											
OFF-delay					0	0	•				
One shot					•	0	•				
Repeat cycle											
starting with OFF					0	•	•				
Repeat cycle											
starting with ON					•	•	•				
Contacts											
1 timed and											
1 instantaneous change-over contact								0			
2 timed change-over contact								•			

(1 instantaneous and 1 timed change-over contact) FD 127/15 Supply voltage Energizing quantity, LED (B1) red Additive operation, LED (B2) red 15/18 (25/28) 15/16 (25/26) LED (K) red Instantaneous change-over contact t_p = OFF time Program switches (1 instantaneous and 1 timed change-over contact) Position of the switches: ● = ON (carn lever up), switches 8 to 0 are not used

> t₁ † t_P † t₁ † t_P

Repeat cycle starting with ON (TI)

A1/A2

R1

B2

21/24

21/22

Timer and switching relays Multi-function DZD 92 L Interface

Analog adjustable multi-function relay for ON-delay timer relay OFF-delay timer relay with supply voltage Interval ON relay Interval OFF relay ON-delay and OFF-delay timer relay One shot Repeat cycle 6 LEDs red, 3-digit LED display red, digit see "Overview of devices" 4.7 VA / 4.6 W 2.6 W	ie					
- OFF-delay timer relay with supply voltage - Interval ON relay - Interval OFF relay - ON-delay and OFF-delay timer relay - One shot - Repeat cycle 6 LEDs red, 3-digit LED display red, digit see "Overview of devices" 4.7 VA / 4.6 W						
- Interval ON relay - Interval OFF relay - ON-delay and OFF-delay timer relay - One shot - Repeat cycle 6 LEDs red, 3-digit LED display red, digit s See "Overview of devices" 4.7 VA / 4.6 W						
- Interval OFF relay - ON-delay and OFF-delay timer relay - One shot - Repeat cycle 6 LEDs red, 3-digit LED display red, digit s See "Overview of devices" 4.7 VA / 4.6 W	size 7.6 mm					
- ON-delay and OFF-delay timer relay - One shot - Repeat cycle 6 LEDs red, 3-digit LED display red, digit s See "Overview of devices" 4.7 VA / 4.6 W	size 7.6 mm					
- One shot - Repeat cycle 6 LEDs red, 3-digit LED display red, digit s See "Overview of devices" 4.7 VA / 4.6 W	size 7.6 mm					
- Repeat cycle 6 LEDs red, 3-digit LED display red, digit s See "Overview of devices" 4.7 VA / 4.6 W	size 7.6 mm					
6 LEDs red, 3-digit LED display red, digit s See "Overview of devices" 4.7 VA / 4.6 W	size 7.6 mm					
See "Overview of devices" 4.7 VA / 4.6 W	size 7.6 mm					
See "Overview of devices" 4.7 VA / 4.6 W						
4.7 VA / 4.6 W						
50 – 60 Hz						
0.8 to 1.1 x U _N						
8 mA						
analog/7						
≤ 20 ms; ≤ 2 ms at 24 V DC						
·						
·						
1						
≤ 0.005 % / K						
4 instantaneous and 4 timed above a sure						
	contact or 2 timed change-ov	ver contacts				
DC-13: U _e 24 V DC, I _e 2 A						
ca. 10 ms						
ca. 10 m						
Ca. 10111						
according to DIN VDE 0110-1:04.97						
according to DIN VDE 0110-1:04.97 4 kV						
according to DIN VDE 0110-1:04.97 4 kV						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC 2.21 kV						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC 2.21 kV						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC 2.21 kV IP 30 / IP 20						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC 2.21 kV IP 30 / IP 20 Test severity 3						
according to DIN VDE 0110-1:04.97 4 kV III 3 outside, 2 inside 250 V AC 2.21 kV IP 30 / IP 20 Test severity 3 -20 - +60 °C						
	≤ 20 ms; ≤ 3 ms at 24 V DC ≤ 40 / ≤ 60 ms; ≤ 40 / ≤ 10 ms at 24 V DC ≤ 40 ms; ≤ 5 ms at 24 V DC ≤ 15 % UN yes no ≤ 1 % ± 10 ms ≤ ± 0.5 % + ± 10 ms ≤ 0.005 % / % △ U _N ≤ 0.005 % / K 1 instantaneous and 1 timed change-over Ag alloy, gold-plated 250/300 V AC/DC 5 A AC-15: U ₀ 230 V AC, I ₀ 2 A DC-13: U ₀ 24 V DC, I ₀ 2 A ≤ 6000 switching cycles/h 30 x 10 ⁶ switching cycles	See table "Time ranges" ≤ 20 ms; ≤ 2 ms at 24 V DC ≤ 20 ms; ≤ 3 ms at 24 V DC ≤ 40 / ≤ 60 ms; ≤ 40 / ≤ 10 ms at 24 V DC ≤ 40 ms; ≤ 5 ms at 24 V DC ≤ 15 % UN yes no ≤ 1 % ± 10 ms ≤ ± 0.5 % + ± 10 ms ≤ 0.005 % / % △ U _N ≤ 0.005 % / K 1 instantaneous and 1 timed change-over contact or 2 timed change-over Ag alloy, gold-plated 250/300 V AC/DC 5 A AC-15: U _e 230 V AC, I _e 2 A DC-13: U _e 24 V DC, I _e 2 A ≤ 6000 switching cycles/h				

AC 230 V 50 – 60 Hz

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