

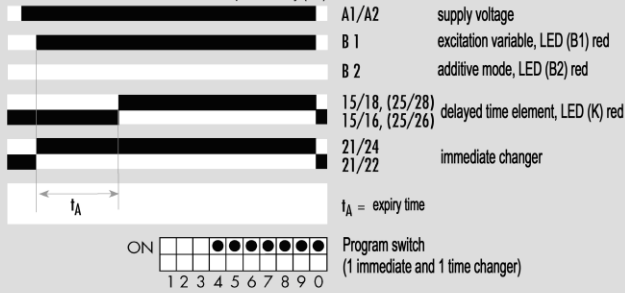
Function diagrams

Function diagrams

DZD 92 L

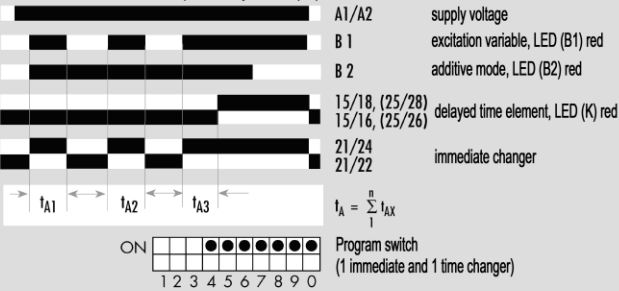
FD 127/1

Response delay (AV)



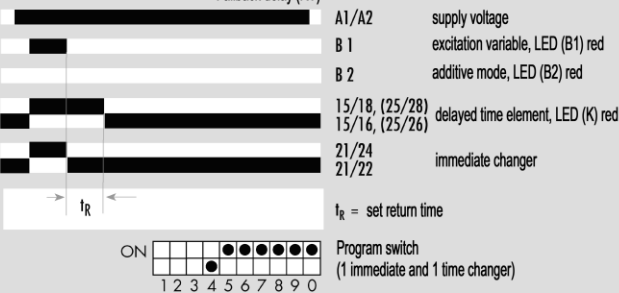
FD 127/2

Response delay additive (AV)



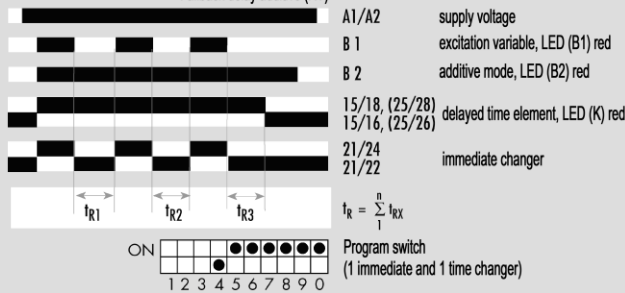
FD 127/3

Fallback delay (RV)



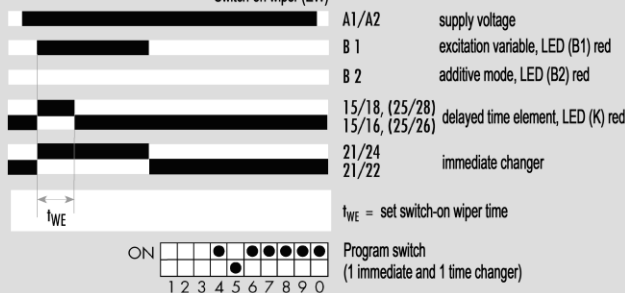
FD 127/4

Fallback delay additive (RV)



FD 127/5

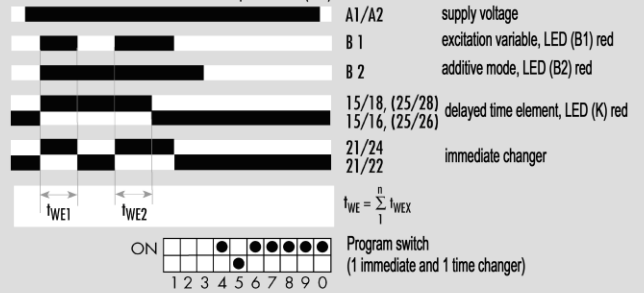
Switch-on wiper (EW)



DZD 92 L

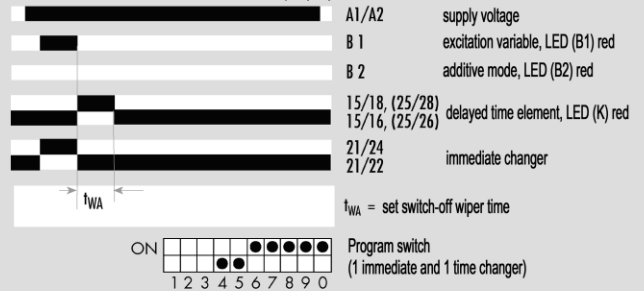
FD 127/6

Switch-on wiper additive (EW)



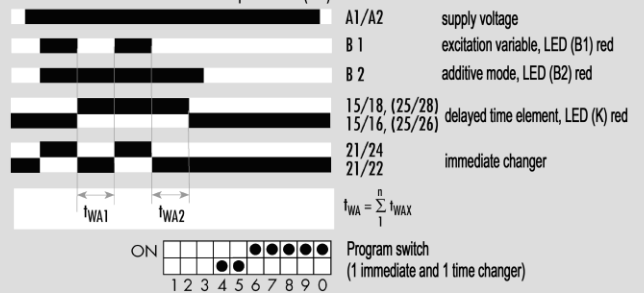
FD 127/7

Switch-off wiper (AW)



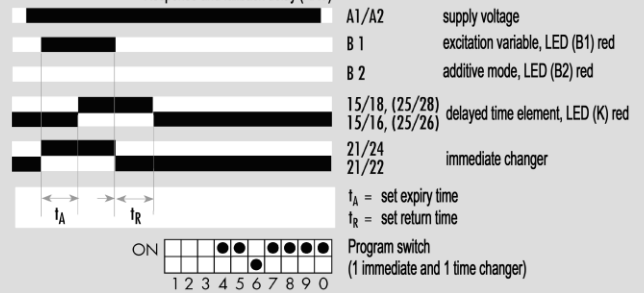
FD 127/8

Switch-off wiper additive (AW)



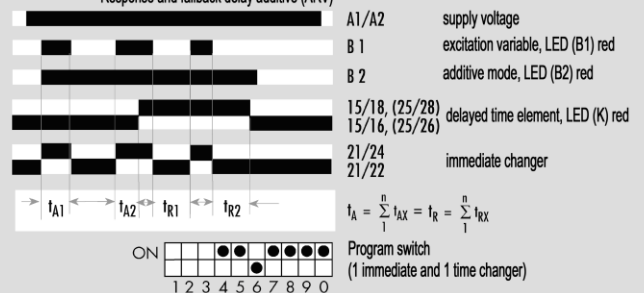
FD 127/9

Response and fallback delay (ARV)



FD 127/10

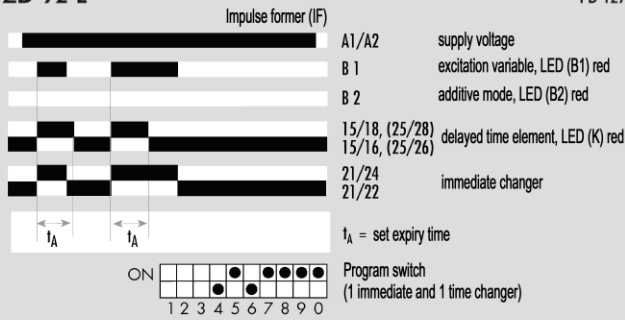
Response and fallback delay additive (ARV)



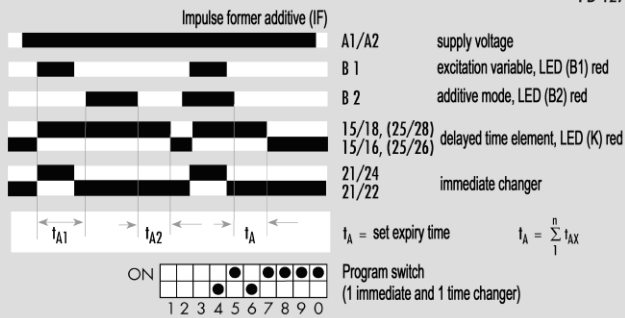
Function diagrams

DZD 92 L

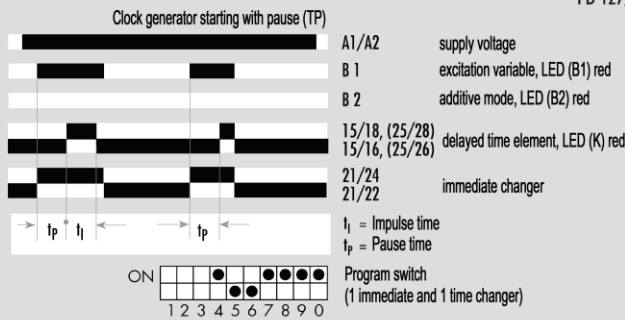
FD 127/11



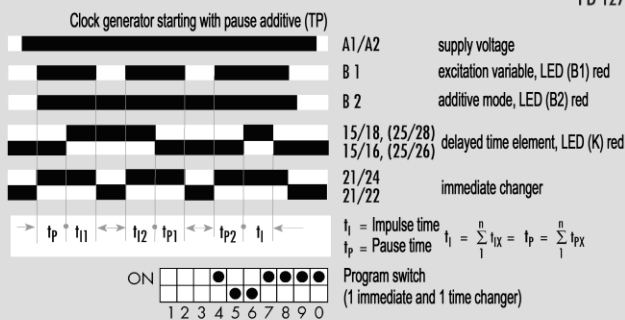
FD 127/12



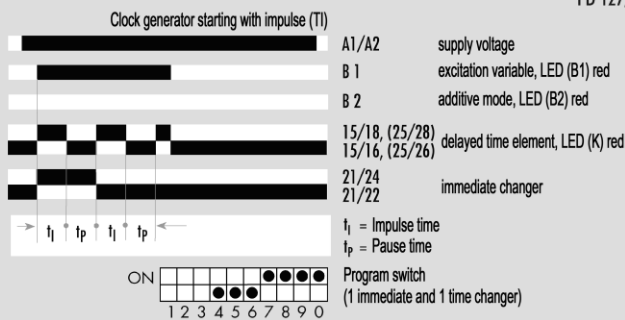
FD 127/13



FD 127/14



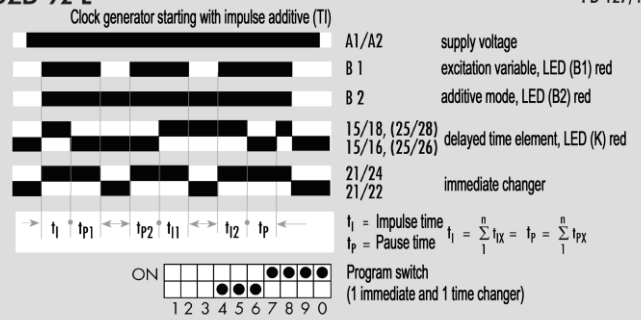
FD 127/15



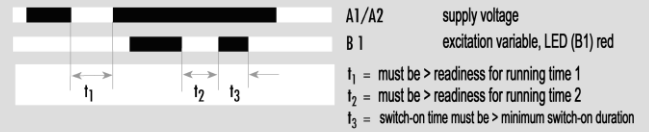
Function diagrams

DZD 92 L

FD 127/16

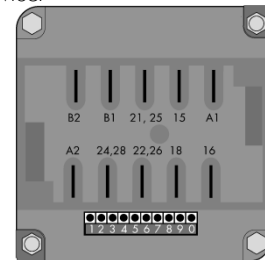


Basic times



Settings

The setting of the functions, the time domains and the contact assembly occurs via a dual-in-line switch (equipped with 10 On/Off switches) on the rear of the device.



Switch position

1	2	3	4	5	6	7	8	9	0
---	---	---	---	---	---	---	---	---	---

Time domain	Resolution	1	2	3	4	5	6	7	8	9	0
0.05 s to 1 s	0.01 s	•	•	•							
0.5 s to 10 s	0.05 s	○	•	•							
3 s to 1 min	0.5 s	•	○	•							
30 s to 10 min	5 s	○	○	•							
3 min to 1 h	0.5 min	•	•	○							
30 min to 10 h	5 min	○	•	○							
5 h to 100 h	0.5 h	•	○	○							

Function	1	2	3	4	5	6	7	8	9	0
response delay				•	•	•				
Power-off delay				○	•	•				
Switch-on wiper				•	○	•				
Switch-off wiper				○	○	•				
Response and fallback delay				•	•	○				
Impulse former				○	•	○				
Pulse relay beginning with pause				•	○	○				
Pulse relay beginning with impulse				○	○	○				
Contacts										
1 timed and 1 immediate changer									•	
2 time changer									○	

Switch position: • = ON (cam at top)
 Switch, 8 to +0 available

Technical Data	DZD 92 L
Function type according to IEC 60050 (445)	Analog-adjustable MultiFunction relay for Mono voltage - Response-delayed time relay - Fallback-delayed time relay with supply voltage - Power- on interval time relay - Power-off interval time relay - Response and fallback delayed time relay - Impulse former - Pulse relay
Function check	6 LED red, 3-digit LED indicator, red, digit height: 7.6 mm
Supply circuit	
Nominal voltage U_N	see Device overview
Rated output at 50 Hz and U_N (AC)	4.7 VA / 4.6 W
Rated output DC	2.6 W
Nominal frequency	50 to 60 Hz
Operating voltage range	0.8 to 1.1 x U_N
Nominal current of the energizing quantity (B1)	8 mA
Timing circuit	
Time setting/Number of time domains	analog/7
Available setting range	s. Table "Time domains"
Operate time of the energizing quantity (B1)	20 ms; 2 ms at 24 V DC
Fallback interval of the energizing quantity (B1)	20 ms; 3 ms at 24 V DC
Standby reactivation interval	40 / 60 ms; 40 / 10 ms at 24 V DC
Minimum power-on time	40 ms; 5 ms at 24 V DC
Fallback value	15 % U_N
Parallel consumer loads permissible	yes
Internal one-way rectification direction	no
Mean value of the fault	1 % ffl 10 ms
Scatter	ffl 0.5 % + ffl 10 ms
Influence of energizing, supply voltage	0.005 % / % ΔU_N
Influence of the ambient temperature	0.005 % / K
Output circuit	
Contact allocation	1 immediate-action and 1 time changer or 2 time changers
Contact material	Ag alloy; gold-plated
Switching nominal voltage U_n	250/300 V AC/DC
max. steady current I_n	5 A
Usage category according to EN 60947-5-1:1991	AC-15: U_e 230 V AC, I_e 2 A DC-13: U_e 24 V DC, I_e 2 A
Permissible frequency of operation	\leq 6000 switching cycles/h
Mechanical service life	30 x 10 ⁶ switching cycles
Operate time	approx. 10 ms
Fallback time	approx. 10 ms
General Data	
Air and creep sections between the electric circuits	according to DIN VDE 0110-1:04.97
Rated surge voltage	4 kV
Over-voltage category	III
Degree of contamination	3 exterior, 2 interior
Rated voltage	250 V AC
Testing voltage U_{eff} 50 Hz according to DIN VDE 0110-1, Table A.1	2.21 kV
Safety class for casing / terminals according to DIN VDE 0470 Section 1:11.92	IP 30 / IP 20
Interference resistance according to IEC 61000-4	Test acuity 3
Ambient temperature, work area	-20 to +60 °C
Weight	0.4 kg
Accessories	B 5, B 7, DA 1, V 4, Z 1
Approvals	-

Device overview / Order numbers

Type	Time delay	Rated voltage	Order number
DZD 92 L	s. Table "Time domains"	DC 24 V	R2.054.0349.1
		AC 24 V 50-60 Hz	R2.054.0329.1
		AC 42 V 50-60 Hz	R2.054.0339.1
		AC 115 V 50-60 Hz	R2.054.0309.1
		AC 230 V 50-60 Hz	R2.054.0319.1