

Multifunction time relay

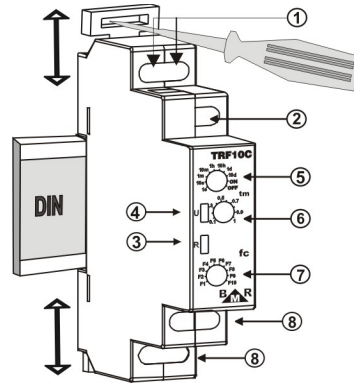
1. Device description

TRF10 is universal multifunction time relay equipped with most often requested functions. It is possible to set time from 0,1 sec till 10 days. Another operating states: timer always ON and timer always OFF. Relay has output double-throw contact 2 x 8 A.

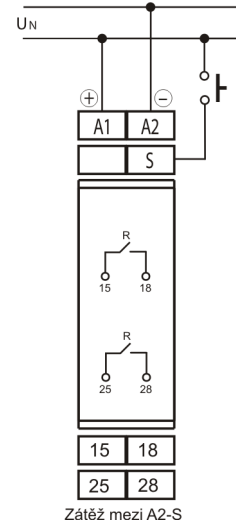
Terminal description:

- 1 Supply voltage
- 2 Control input START
- 3 Output indication
- 4 Supply voltage indication
- 5 Time set
- 6 Fine time adjustment
- 7 Function selection
- 8 Outputs

Terminal placement:



Connection diagram:



2. Function

F1 - delay on operate

F2 - delay on release

F3 - wiper-speed switch with gap initiation

F4 - wiper-speed switch with pulse initiation

F5 - delay on release after control contact disconnection

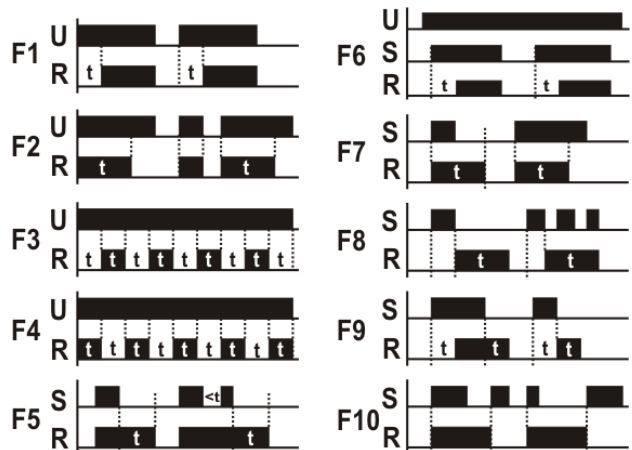
F6 - delay on operate after control contact connection

F7 - delay on release after control contact connection

F8 - non-delay on operate after control contact disconnection and delay on release

F9 - delay on operate after control contact connection and delay on release after control contact disconnection

F10 - impulse memory relay



3. Technical features

Parameter	Value
Supply voltage	12 VAC, VDC to 230 VAC
Supply terminals	A1, A2
Power consumption	max. 1,5 VA
Number of functions	10
Supply voltage indication	green LED
Timing indication	yellow LED blinking
Time adjustable ranges	0,1 sec ... 10 days
Output parameters	
Number and type of contacts	2 x changeover contact
Nominal current	8 A
Switching power	max. AC 2000 VA
Trigger current	30 A
Nominal voltage / max. switching voltage	250 VAC / 440 VAC
Maximum net harmonic distortion	has to be less than 5%
Mechanical lifetime	3 x 10 ⁷
Electrical lifetime	1 x 10 ⁵ 250 VAC, 8 A
Others	
Working temperature	-20 ... +55 °C
Storage temperature	-40 ... +70 °C
Working position	any
Mounting	IEC 60715 (DIN 35)
Protection degree	IP 40 on panel / IP 20 terminals
Electrical strength	4 kV
Input wire diameter with/without cavern	max. 2x1,5mm ² ; 1x2,5mm ² / max. 2x1,5mm ² ; 1x2,5mm ²
Weight	75 g
Dimensions	90 x 18 x 65 mm
Standards	IEC 60255-6, IEC 61010



Note

After changing the function, it is recommended to make immediate activation by switching off and on power supply voltage. Otherwise, function change will become active after previous set time expires. If time interval is changed, there is no need to disconnect supply voltage.