

# Function Diagram

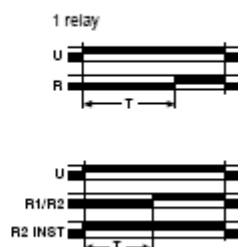
## Multifunction: A, At, B, C, H, Ht, Di, D, Ac, Bw

### Function A: Delay on energisation

Single timing cycle which begins on energisation.

The output changes state after timing.

2 relays timed or  
1 relay timed and 1 Instantaneous



### Function Ac: Timing after closing and opening of control contact

After energisation, closure of the control contact causes the timing period T to commence and output relay R (or the load) changes state at the end of this interval. When contact C (Y1) opens, relay R resets after a second timing period T.

2 relays timed or  
1 relay timed and 1 Instantaneous



### Function At: Timing on energisation with memory

Provides a cumulative time for contact opening.

The output changes states at the end of the set time.

2 relays timed or  
1 relay timed and 1 Instantaneous



### Function B: Timing on impulse one shot On pulse (with constant supply)

After energisation; a pulse ( $\geq 50$  ms) or a maintained control contact will cause the output to change state which reverts to the rest position at the end of timing.

N.B. : this process enables shortening or lengthening of a signal.

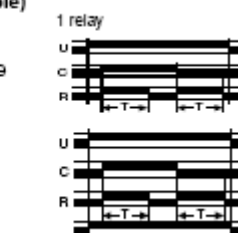
2 relays timed or  
1 relay timed and 1 Instantaneous



### Function Bw: Pulse output (adjustable)

Output relay R (or the load) changes state, and remains in the changed-over state for the timing period, both when control contact C (Y1) closes and when it opens.

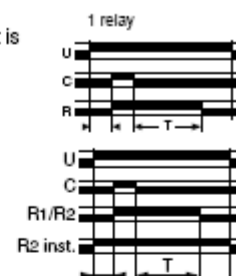
2 relays timed or  
1 relay timed and 1 Instantaneous



### Function C: Timing after impulse Delay OFF (with constant supply)

After energisation, once the control contact is closed the output state changes. Timing will only begin on the re-opening of this control contact (one shot). Relay R returns to its initial position at the end of the timing period.

2 relays timed or  
1 relay timed and 1 Instantaneous



### Function D or Di: Flip-flop

Repetitive cycle which switches the output alternately between the rest and operating position for equal time bases.  $T1 + T2 = T$  total

Function D: the cycle begins with the output in rest position. Pause start.

2 relays timed or  
1 relay timed and 1 Instantaneous



Function Di: the cycle begins with the output in the operating position. Pulse start.

2 relays timed or  
1 relay timed and 1 Instantaneous



### Function H: Timing on energisation Interval timer - one shot

On energisation, the output changes state, remains in that state for the duration of timing and resets at the end of the single cycle.

N.B. This is complementary to function A.

2 relays timed or  
1 relay timed and 1 Instantaneous



### Function Ht: Delay on energisation with memory

Provides a cumulative time for contact opening. On energisation, the output changes state, remains in that state for the duration of timing and resets at the end of the single cycle.

2 relays timed or  
1 relay timed and 1 Instantaneous

