

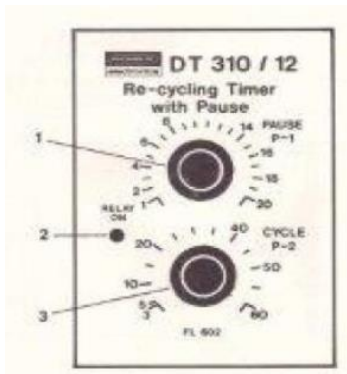
## DT-310/12

### DESCRIPTION

The DT-310/12 provides repetitive forward-reverse cycling for machines or alternate switching of two loads with a pause between cycles. The cycle time and the pause time are independently adjustable on a calibrated scale

### FEATURES

- Equal repeating forward-reverse cycles
- Independent adjustment of pause and cycle times.
- High repeatability accuracy
- Available in eleven overlapping time ranges from 0.1 seconds to 20 hours
- Available in various supply voltages from 12VDC to 380VAC

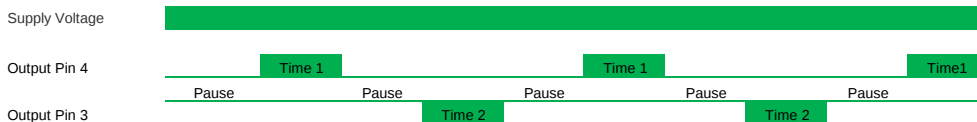


### DESCRIPTION OF OPERATION

The unit is ready to operate when power is connected to pins 2 and 10. On power up the unit starts with the pause, i.e. both contacts on pin 3 and pin 4 are totally isolated from the common pin 1. When the set pause time has expired the contact between pin 1 and pin 4 will close for a set cycle time. After expiry of the cycle time has elapsed the contact pin 1 and 3 will close for the set cycle time. After expiry of this cycle time the whole sequence will repeat itself until the power supply to the unit is disconnected.

### OPERATION CONTROLS

- 1 Time adjustment for the Pause P1
- 2 led indication for the relay ON
- 3 Cycle time adjustment P2



### TECHNICAL SPECIFICATIONS

|                       |                                             |                     |                                                |                  |
|-----------------------|---------------------------------------------|---------------------|------------------------------------------------|------------------|
| Supply Rating         | Rated for continuous operation input        | Timing Ranges       | 0,1 - 2seconds                                 | 1 - 20minutes    |
| Protection            | voltage stabilisation and surge protected   |                     | 03 - 6seconds                                  | 3 - 6minutes     |
|                       |                                             |                     | 1 - 20 seconds                                 | 10 - 200 minutes |
| AC VOLTAGES           | 12, 24, 48, 60, 115, 230, 400VAC $\pm 15\%$ |                     | 3 - 60 seconds                                 | 30 - 600minutes  |
|                       | 40 - 70 Hz, 2.5VA                           |                     | 10 - 200 seconds                               | 1 - 2 hours      |
| Overtoltage protectic | 50% for 1 minute (50Hz)                     |                     | 30 - 600 seconds                               |                  |
| DC VOLTAGES           | 12, 24, 48, 60, 110VDC $\pm 15\%$           | Repetitive Accuracy | $\pm 0.1\% \pm 5$ seconds                      |                  |
| Max Ripple            | 100% (above 50Hz)                           | Overall Accuracy    | 10%                                            |                  |
| Consumption           | 5W/12VDC, 1.5W/24VDC                        | Output              | 1 x single pole change over relay              |                  |
|                       | 5W on higher reanges                        |                     | 380VAC - 10A - 2500VA                          |                  |
| Overtoltage protectic | 100% for 1 minute on 12 and 24 VDC          | Isolation           | 2500V                                          |                  |
|                       | 20% FOR 1 minute on higher ranges           | General             | $-20^{\circ}\text{C}$ Tto $50^{\circ}\text{C}$ |                  |
| Controls              | Pause duration adjustment P1                | Weight              | 190gr                                          |                  |
|                       | Cycle time adjustment P2                    |                     |                                                |                  |
| Indication            | Dim LED indicates Time 1 (Pin 4 active)     |                     |                                                |                  |
|                       | Bright LED indicates Time 2 (Pin 3 active)  |                     |                                                |                  |

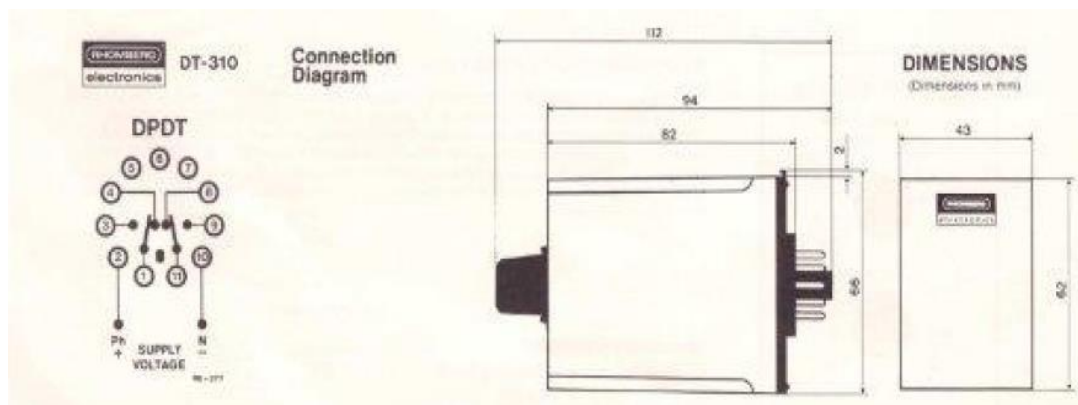
### BRANCH CONTACT DETAILS

|              |              |
|--------------|--------------|
| Johannesburg | 010 202 3300 |
| Germiston    | 011 418 9600 |
| Cape Town    | 021 510 0710 |
| Pinetown     | 031 700 4215 |
| Riverhorse   | 031 492 4800 |

### NATIONAL CALL CENTRE

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| Sales     | 010 202 3400 |
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