**INSTALLATION AND SETTING**

- **BEFORE INSTALLATION, ISOLATE THE SUPPLY.**
- Connect the unit as required.

**SETTING the unit.**

- Set the “Function” selector to the required position.
- Set the “Range” selector to the required position selecting seconds, minutes or hours then set the “Set %” adjustment as required. The “Set %” is a % of the selected range, so 60% of the 1–10 hour range will give 6 hours.

**Applying power.**

- Apply power and the green LED will illuminate or start flashing depending on Function selected. If a Switch initiated function is selected, the LED will begin flashing upon closing of the external input.
- The red relay LEDs will illuminate to indicate the relay is in the energised state.

**Note:**

1. If the “Function” selector is changed whilst the power is applied, the relay will remain in its current state and the green LED will flash with an “Err” and until the “Function” selector is changed again.
2. In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply provided the state of the output relay does not change.
3. The red or green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply provided the state of the output relay does not change.

**CONNECTION DIAGRAM**

- 1. Power supply status / Timing (Green) LED
- 2. Relay output status (Red) LED
- 3. “Set %” adjustment
- 4. Time delay “Range” selector
- 5. Timing “Function” selector

**FUNCTION DIAGRAMS**

- Symbol 1: Function
- Triggered from:
  - DD: Delay On Operate
  - IN: Interval
  - IF: Symmetrical Recycling (Off/On)
  - DD0: Delay On
  - DO: Delay Off
  - IN0: Interval
  - FN: Input

**FEATURES**

- Multifunction, Multi-voltage MT
- DIN rail / surface mounting
- Dimensions: to DIN 43880
- All dimensions in mm.

**TECHNICAL SPECIFICATION**

- Supply voltage U (A1, A2): 12 – 230V AC/DC
- Frequency range: 50–60Hz
- Supply variation: ±5–10% of rated voltage
- Overvoltage category: II (IEC 60664-1)
- Rated impulse withstand voltage: 4kV (1.2/50 µs) IEC 60664-1
- Power consumption (max.): 12V 120mA, 24V 240mA, 110V 440mA, 230V 1200mA
- Timing functions (7):
  - Supply initiated: Delay On (DO), Interval (IN), Symmetrical Recycling ON/OFF (IF)
  - Switch initiated: Delay On (DO), Delay Off (DO), Interval (Trailing) (IN), Interval (Leading) (FN)
  - Timing ranges (7):
    - Seconds: 0.1 to 14,400 seconds
    - Minutes: 1 to 240 minutes
    - Hours: 1 to 144 hours
  - Reset time:
    - < 100ms
  - Accuracy:
    - ± 1% of maximum full scale
  - Adjustment accuracy:
    - ± 5% of maximum full scale
  - Repeat accuracy:
    - ± 0.5% of constant conditions (IEC 61812)
  - Drift with temperature:
    - ± 0.05%/°C
  - Drift with voltage:
    - ± 0.2%/V
  - External trigger input (A1 + B1): Volt Free Contact, Open Collector
  - External loading:
    - Yes, between A1 and A2 (i.e. LED, Relay, Lamp)
  - Trigger threshold:
    - >75% of voltage present between A1 and A2 (auto-set)
  - Minimum trigger time:
    - AC 60ms, DC 40ms (81 terminal unloaded)
  - Maximum input frequency:
    - 50Hz (50/50 duty cycle)
  - Maximum cable length:
    - 10m (between Timer and external switching device)
  - Power on indication / Timing:
    - Green LED
  - Relay status:
    - Red LED
  - Ambient temp:
    - 20°C to +60°C
  - Relative humidity:
    - <95%
  - Output (15, 16, 18 / 25, 26, 28):
    - DPDT relay
  - Output rating:
  - Electrical life:
    - >150,000 ops at rated load
  - Dielectric voltage:
    - 2kV AC rms IEC 60947-1
  - Rated impulse withstand voltage:
    - 4kV (1.2/50µs) IEC 60664-1
  - Housing:
    - Orange flame retardant UL94 V-0
  - Weight:
    - < 70g
  - Mounting option:
    - On to 35mm symmetric DIN rail to BS EN 60715
  - Terminal conductor size:
    - ≤ 2 x 2.5mm² solid or stranded
  - Approvals:
    - Conforms to IEC 61812.