TC1M

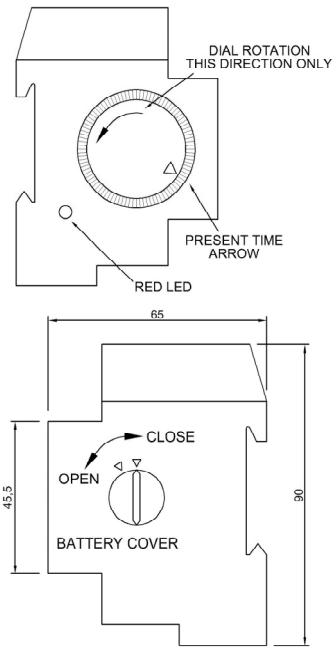
Single Channel 24hr Time Clock

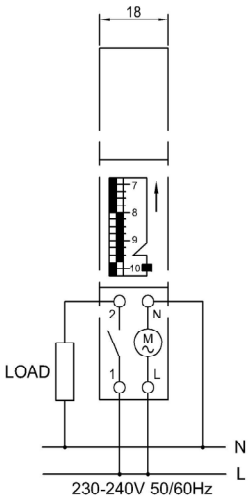
General Information

This device must be installed and tested by a qualified electrician in accordance with the latest edition of the IET wiring regulations for electrical installations BS7671

The power consumption of connected electrical appliance shall be within the limitation of the rated switching capacity.

Technical Data	
Reference standard	IEC60730
Rated Voltage	230-240V 50Hz
Output switching contact	1x Normally Open
Load Switching capacity (Resistive)	16A 250VAC
Programmable timer settings	24hr
Power Consumption	1 watt
Minimum time setting interval	15 minutes
Time keeping precision (at 25˚C)	+/- 3 sec per day
Protection against electric shock	Class II
Ingress Protection to EN60529	IP20
Operating temperature	-10 to +50°c
Terminals line/load	1-4mm²
Terminal tightening torque	1.2Nm
Mounting method	35mm Din rail
Overall Dimensions (mm)	18W x 90H x 65D
Drive method	Quartz controlled stepper motor





THIS GUIDE MUST BE LEFT WITH THE UNIT FOR FUTURE REFERENCE

Power source connection

The unit must be permanently connected to a 230-240Vac power source via terminals L (Line) and N (Neutral)

Ensure that all connections have been tightened to the specified torque prior to energisation.

Switching contact

The switching contact is 'volt free' hence it will not provide a switched live output via terminal 2 unless terminal 1 is connected to the line wire of a permanent power source (see connection diagram)

The switch contact is suitable for resistive loads only. For switching of inductive or capacitive loads, the timer should be used in conjunction with a suitable contactor or relay.

Initial Set up

On initial set up the unit should be connected to a power source for 10 minutes before the time is set. This will allow the battery to charge sufficiently.

The set up procedure can then be completed with or without the power source connected. The battery will reach full reserve of 72 hours after 3 days of charging.

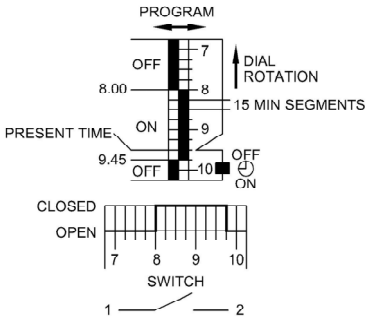
Timer programming

Each of the 96 blue segments located on the timing wheel represents a 15 minute interval of a 24hr clock.

The segments can be moved either individually or in blocks, right or left to select ON and OFF time settings of the switch contact (1-2).

Right = ON / Left = OFF

One complete revolution of the timing wheel takes 24 hours.



Setting present time

After programming, rotate the timing dial anti-clockwise until the current time is in alignment with the present time arrow markers (located front and side—see diagrams)

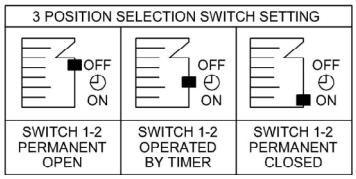
Battery back up

The unit is equipped with a battery back up. In the event of mains power failure, the timer will continue to function for a period of 72 hours. The battery is replaceable. Use battery type: NiMH 80H 1.2V 80mAh rechargeable button cell. Battery polarity must be observed when fitting.

3 position selection switch

Operating mode of the switch contact is defined by the user setting of the 3 position selection switch, located on the front face of the timer.

The switch must be set to the centre clock position in order to run the user defined timer program, whilst ON and OFF positions provide a timer override; causing the switch to remain in the pre-selected condition.



Red LED

The red LED is located on the left hand side of the timer and can be viewed through the transparent cover.

Status	Key
ON	Replace battery
OFF	Battery OK
FLASHING	Transit mode. Remove and refit battery

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