

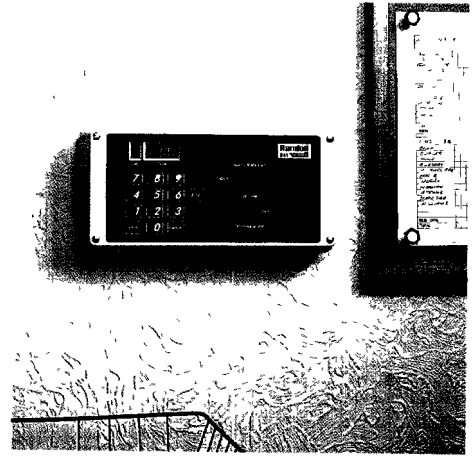
The Mark 8 range of 7-day timeswitches are designed for commercial and industrial use, with the ability to withstand harsh environments while providing accurate control of the timed functions

The On/Off units 811, 851 and 852 are ideal for boiler control, lighting and process control

The pulsed output units 841 and 842 can be used for class change bell ringing in schools and colleges, and for breaks and shift changes in factories.

With up to 200 programmable events, (On's, Off's, or pulses), the range in general features true seven day control where any number of days may be omitted. Entry is via the easy to read membrane keypad which incorporates audible feedback, and it is only possible to enter or change the programme while the security key is in place and turned to the setting position

During a mains power failure the time and programme are retained for three months by the integral ni-cad battery. The automatic programme resumes on restoration of the power supply



Model 841 - bellringing application

These models have two self cancelling over-rides, EXTEND and CROP

The EXTEND period is set via the keypad while the keyswitch is turned to "Set Programme", and can vary in duration from 1 to 8 hours. It can also be set to render the EXTEND button inoperative (0), or to provide a "constant on" (9) until an over-ride is pressed again. Once programmed and the keyswitch has been returned to the RUN position, for extend periods of 1 to 8 hours, pressing EXTEND will switch the output On immediately if it is off, or extend an existing On period by the set duration.

The CROP key is used to Cancel the Remainder of a programmed On Period, providing an "early off" facility. The Auto-Off rocker switch enables the output to be under programme control or switched Off completely

The pulsed output may be continuous or intermittent, and of 1 to 15 seconds duration. Both pulse type and duration are selectable at the time of installation. In addition to the automatic programme the output of each channel can be switched on momentarily by depressing the MANUAL side of the rocker switch, just like a bellpush.

For heavy duty switching, the 811 has SPST contacts rated at 30A resistive.

This model has 10A resistive SPDT changeover contacts

With two completely independent output channels, (total rating 10A resistive) the 852 is ideal for the control of two services from one convenient location, for example heating and lighting, or perhaps two separate heating zones for workshops and offices which can be set to operate at the most economical times

Single channel bellringer with 15A (resistive) SPST contacts.

Two independent channels, each may have different pulse types and durations. Each channel has SPDT contacts rated at 3A (resistive).

| <b>Technical Specifications</b>                 | <b>811</b>  | <b>851</b> | <b>852</b>         | <b>841</b>   | <b>842</b>          |
|---|---|------------|--------------------|--|---------------------|
| Single channel                                  | ●   | ●          |                    | ●  |                     |
| Two independent channels                        |   |            | ●                  |  | ●                   |
| Max switching current (res) @ 240Vac & contacts | 30A. SPST   | 10A SPDT   | 10A total SPDT x 2 | 15A SPST   | 3A SPDT per channel |
| Voltage rating (Standard) (Special)             | 220/240Vac 50Hz<br>110Vac 50Hz  |            |                    |  |                     |
| Ambient temperature range                       | 0°C to 45°C   |            |                    |  |                     |
| Max. number of programmable events              | 200 on's or off's freely allocated over 7 days  |            |                    | 200 events freely allocated over 7 days                                  |                     |
| Omit day(s) facility                            | ●   | ●          | ●                  | ●  | ●                   |
| Setting resolution                              | One minute minimum  |            |                    | 1 to 15 second pulse, continuous or intermittent at one minute intervals |                     |
| Battery reserve                                 | With full charge, retains time and programme memory for up to three months                                |            |                    |  |                     |
| I P rating                                      | IP4X if cable entry is from the rear only and the unit is mounted directly on the wall, preventing access |            |                    |  |                     |
| Overall dimensions (mm)                         | 115 high x 228 wide x 50 deep   |            |                    |  |                     |

Danfoss Randall



**Danfoss Randall Ltd.**

Ampthill Road,  
Bedford,  
MK42 9ER  
Tel: 0234 364621  
Fax: 0234 219705

*Dealer*