

Sentry
Electromechanical and
Digital Timeswitches and
Time Delay Switch

1:3



Sentry® Electromechanical and Digital Timeswitches and Time Delay Switch

PRODUCT RANGE	
Electromechanical timeswitches	
Standard synchronous	
with captive tappets and 7 day dial, 3 module	5707s
with captive tappets and 24 hr dial, 3 module	5724s
with captive tappets and 24 hr dial, 1 module	5833s
Quartz controlled	
with captive tappets and 7 day dial, 3 module	5807s
with captive tappets and 24 hr dial, 3 module	5824s
Digital timeswitches	
one channel, 2 module	5731s
two channel, 2 module	5732s
one channel, 1 module	5733s
Time delay switch	
range 1-7 minutes, 1 module	5650s

Standards and approvals

5731s, 5732s, 5733s – EN 60730-1, EN 60730-2-7
 5707s, 5724s, 5833s, 5807s, 5824s – EN 60730-1, EN 60730-2-7

Description

Sentry electromechanical and digital time-switches enable pre-programmed commands to be executed on a given circuit. The Sentry time delay switches can be installed on circuits to automatically interrupt the supply after a preset time has elapsed.

Note: Inductive loads, particularly fluorescent lamps or energy saving lamps, place a heavy stress on the switching contacts. If in doubt about the ability of the timeswitches to directly switch a particular load it is advisable to install the timeswitch in conjunction with a suitable relay or contactor. If in doubt please consult the Technical Sales and Service Department for assistance.

Electromechanical

All Sentry electromechanical timeswitches are suitable for DIN rail mounting in Sentry Consumer Units and appropriate Sentry enclosures.

Quartz controlled units contain a power reserve of 150 hrs for accurate time keeping in the event of a mains failure.

3 module timeswitches have an additional insulated 'parking' terminal for earth or other connections.

24 hr units have a minimum switching time of 30 mins and 7 day units 3 hrs.

Digital

All Sentry digital timeswitches are suitable for DIN rail mounting in Sentry Consumer Units and 2 and 4 module Sentry enclosures.

Sentry digital timeswitches are available in both 1 and 2 module widths.

The 1 channel 1 module digital timeswitch (5733s) provides 42 programming selections, with random and holiday options. A simple summer to winter time (and vice versa) adjust-

ment facility is provided. The timeswitch contains a power reserve of 150 hrs for accurate time keeping in the event of mains failure.

The two module digital timeswitches are available in both one channel (5731s) and 2 channel (5732s) versions. The units are supplied pre-programmed to UK time, and will automatically change from winter to summer time. The integral battery (with a 3 year power reserve) maintains the settings until the mains supply is connected. This feature will allow programming of switching commands prior to installation, if required.

The 1 channel 2 module digital timeswitch (5731s) provides for 20 programming selections.

The 2 channel 2 module digital timeswitch (5732s) provides a facility for independent control of two circuits. A maximum of 30 switching commands can be programmed for each channel.

All digital timeswitches have a minimum programming time of 1 minute and a manual override. Commands can be programmed for individual days or for groups of days.

Time delay

The Sentry time delay switch (5650s) is suitable for mounting in Sentry Consumer units and 2 and 4 module Sentry enclosures. The unit offers time delay control of complete circuits within the range of 1 to 7 minutes in increments of 15 seconds.

Note: The time delay switch is not applicable for control of low energy lamps.

Override of the time delay function is only possible by the use of the switch provided on the device and should not be achieved by remote 'switches'.

The use of PIR is not a recommended method of activating the time delay switch

Sentry
Electromechanical and
Digital Timeswitches and
Time Delay Switch

2:3



Features

- Ideal for independent programmable control of lighting, heating and other functions
- Can be mounted in Sentry Consumer Units and appropriate Sentry enclosures, or surface mounted
- Integral resistance to normal electrical interference
- Manual override of programmed commands
- Display indication of switch position for each Channel, i.e. ON or OFF (Digital only)
- Simple summer time to winter time (and vice versa) adjustment facility (Digital only)
- Random and holiday setting programme (5733s only)

TECHNICAL SPECIFICATION

Electromechanical					
	5707s	5724s	5833s	5807s	5824s
Supply voltage	220-240V a.c. 50Hz	220-240V a.c. 50Hz	220-240V a.c. 50Hz	220-240V a.c. 50-60Hz	220-240V a.c. 50-60Hz
Maximum power consumption	1VA	1VA	1VA	1VA	1VA
Switching capacity per channel					
– Resistive	16A	16A	16A	16A	16A
– Inductive	4A (Cos.Ø 0.6)	4A (Cos.Ø 0.6)	4A (Cos.Ø 0.6)	4A (Cos.Ø 0.6)	4A (Cos.Ø 0.6)
– Fluorescent	1350W	1350W	1350W	1350W	1350W
Switching arrangement	1 x c/o	1 x c/o	1 x n/o	1 x c/o	1 x c/o
No. of switching commands	56	48	48	56	48
Minimum programme time	3hrs	30mins	30mins	3hrs	30mins
Operating temperature range	–25°C to +55°C	–25°C to +55°C	–25°C to +55°C	–20°C to +55°C	–20°C to +55°C
Running reserve	–	–	–	*150hrs	*150hrs
Width of unit	54mm (3 mods)	54mm (3 mods)	18mm (1 mod)	54mm (3 mods)	54mm (3 mods)
Terminal capacity	2 x 2.5mm ²	2 x 2.5mm ²	2 x 4mm ²	2 x 2.5mm ²	2 x 2.5mm ²
*after 140hr charging time					
Digital and Time delay					
	5731s	5732s	5733s	5650s	
Supply voltage	220-240V a.c. 50-60Hz	220-240V a.c. 50-60Hz	220-240V a.c. 50-60Hz	220-240V a.c. 50Hz	
Maximum power consumption	1VA	1VA	5VA	–	
Switching capacity per channel					
– Resistive	16A	16A	16A	16A	
– Inductive	2.5A (Cos.Ø 0.6)	2.5A (Cos.Ø 0.6)	2.5A (Cos.Ø 0.6)	2A (Cos.Ø 0.6)	
– Fluorescent	1000W	1000W	1000W	uncompensated/ series compensated = 1300W, Parallel compensated = 480W	
Switching arrangement	1 x c/o	2 x c/o	1 x c/o	1 x n/o	
No. of switching commands	20	30	42	–	
Programme options	–	–	R/H	–	
Minimum programme time	1min	1min	1min	15sec	
Operating temperature range	–25°C to +55°C	–25°C to +55°C	–10°C to +55°C	–10°C to +55°C	
Operating accuracy @ 20°C	2.5sec/day	2.5sec/day	2.5sec/day	–	
Running reserve	3 years from factory	3 years from factory	*150hrs	–	
Width of unit	36mm (2 mods)	36mm (2 mods)	18mm (1 mod)	18mm (1 mod)	
Terminal capacity	2 x 2.5mm ²	2 x 2.5mm ²	2 x 4mm ²	1 x 4mm ²	
Summer/winter changeover	Yes	Yes	Yes	–	
Neon indicator lamp load	–	–	–	50mA max	
¹ R/H = Random/holiday	C/O = Changeover switch	N/O = Normally open contact	*after 140hr charging time		

Sentry

**Electromechanical and
Digital Timeswitches and
Time Delay Switch**

3:3



Dimensions (mm)

