## SANGAMO 24-HOUR DIAL <br> SYNCHRONOUS <br> TIME SWITCHES WITH OMITTING DEVICE MODEL S611



## SPECIFICATION

Current, voltage frequency:
Ambient temperature:
Live parts:
Dirt protection:
Moisture protection:
Shock protection:

As shown on identification label of switch
0-50C
Enclosed
Normal situations
Ordinary
Class 1

## TO INSTALL

1 Remove front cover by releasing the two locking keys and lift clear.
2 Loosen captive screws A (Fig 1) and withdraw mechanism from base.
3 Remove extended terminal cover E by unscrewing captive screw F and lift clear.
4 Secure base with three No. 6 countersunk wood screws or three No. 4 BA countersunk screws.
$5 \quad$ Connect switch to supply (See relevant wiring diagram above). Switches are supplied suitable for common motor connections (Fig 3). For independent motor connections (Fig 4), remove line link and moulded plug (Fig 2). Ensure that switch is earthed.

NOTE: The maximum lengths for which the cables may be bared are 0.85 in . $(21.6 \mathrm{~mm})$ for line and load and $0.6 \mathrm{in} .(15.2 \mathrm{~mm})$ for neutral.

6 Fit mechanism to base and tighten screws $A$.
$7 \quad$ Replace and secure extended terminal cover E.
NOTE: On completion of installation and/or setting of switch, replace and secure front cover

## WARNING

This control must be earthed.
Terminals for fixed wiring only.
Provision for class A disconnection of supply to the control must be made in the fixed wiring.

## SETTING INSTRUCTIONS

Loosen broad-headed, central screw B (Fig 1) and remove dial assembly, thus revealing the omit disc.
The omitting device permits 'on' operations or 'off' operations to be omitted as required and for part or all of any day or days of the week.

The omit disc has 14 index positions, 2 for each day of the week. The time at which the disc is indexed, is relative to the target positions $C$ and $D$ (Fig 1). The position of the index pins I (Fig 5) on the underside of the dial must be such that the omit disc is moved before the next target is due to operate.

To move index pins, slacken screws $S$ (Fig 5), move pins to required position and tighten screws.
With 4 targets in use (2 'on' and 2 'off') adjust index pins so that one 'on' and one 'off' target are between them.
Slacken locating screws securing targets $C$ and $D$ (Fig 1). Move targets to required operating times, targets $C$ against engraved scale on underside of dial and targets $D$ against upper scale. Tighten locating screws so that targets are held firmly in position. In cases where an odd number of targets are used such as for 'early on' and early off' switches etc. the unwanted target should either be removed from the dial or parked immediately following a target of like nature in the same period. Replace dial assembly and tighten screw B. Turn dial in direction of arrow until the red mark 'DAY' (Q, Fig 1) indicates the correct day and period and pointer P indicates time of day at moment of setting. Allow for backlash by lightly turning dial in opposite direction to arrow.

Programme settings can be checked by rotating the dial by hand in the direction of arrow and checking the switching functions for every day of the week, by observing the 'ON/OFF' indicator (Fig 1).

## MINIMUM PERIOD BETWEEN OPERATIONS

The minimum setting period between 'on' and 'off' targets is 15 minutes. Where additional targets are fitted, there must be at least 90 minutes between consecutive 'on' or 'off" targets.

## ON/OFF INDICATOR V (Fig 1)



Contacts open

## MANUAL OPERATION

Moving knob R (Fig 1) in an anti-clockwise direction opens or closes the switch contacts, anticipating the next operation: the knob will immediately return to its neutral position.

For continuous 'ON' or continuos 'OFF' operations of the switch, set as required and as indicated on Indicator V (Fig 1) turn knob R (Fig 1) clockwise to lock: it will remain locked until the next manual operation is performed.

Note: Minimum distance of index pin from target is 45 minutes. If only one 'on' and one 'off' targets are used, adjust index pins to be opposite and positioned centrally between targets.

## SETTING OF OMIT DISC TAPPETS

Each tappet has 3 positions: black dot for omitting 'off' operation, red dot for omitting 'on' operation, N for neutral, operations unaffected.


Examples of typical programmes



Examples of typical programmes


## SETTING YOUR PROGRAMME

If none of the six typical programmes shawn on pages 7 -12 meet your exac: equirements, it is recommended that the programme be worked out as follows:

Mark the accom: panying illustration of the dial with the position of operation targets, and index pins. This will determing 1st and 2nd periods of each day. Complete the form for pasition af omit disc tappets.

Fit the dial to the switch by means of the large headed screw. Set the dial and the omit disc as described on pages 5 and 6 .


Schlumberger Industrial Estate Port Glasgow Renfrewshire PA14 5XG

Tel: 01475745131
Fax: 01475744567

Email: marketing@port-glasgow.rms.slb.com
Web: www.sangamo.co.uk

