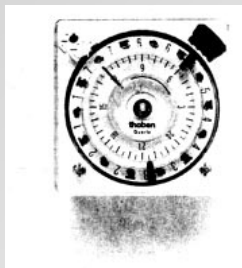




Operating instructions

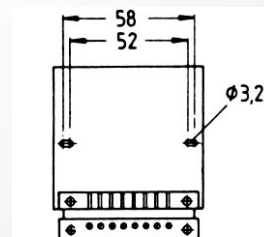
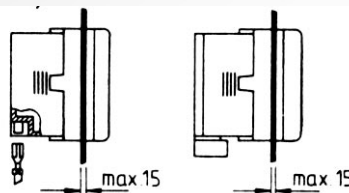
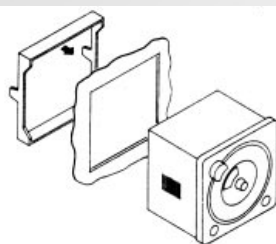
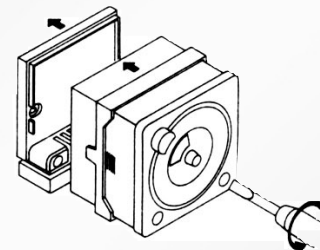
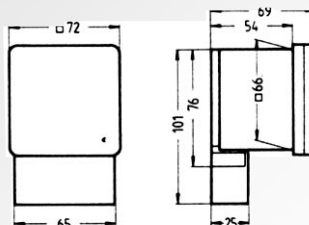
**SUL 189 hw**

Nr. 189 0 108

SYN 169 hw

Nr. 169 0 108

 230 V~ ± 10 %
 10 (2) A, 250 V~
 IP 20 nach EN 60529



The time switches are in accordance with the European directives 73/23/EEC (Low-Voltage Directive) and 89/336/EEC (EMC-Directive). If the time switches are used together with other devices in an installation, take care that the complete installation does not cause a radio interference.

1. Mounting

- a) Panel mounting
- b) Surface mounting construction

2. Connections

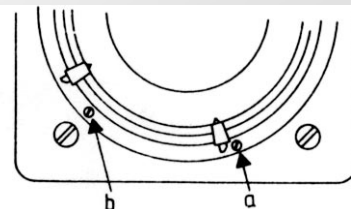
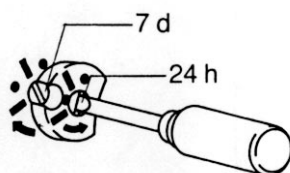
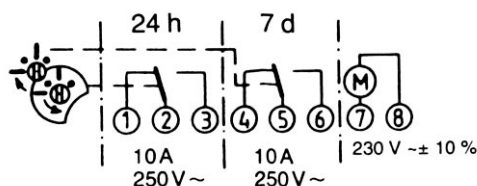
The connections must conform with the appropriate installation specifications.

MOUNTING INSTRUCTIONS

Safety information: Electrical devices should only be connected and mounted by an electrical specialist. Manipulations and modifications on the switch will result in loss of warranty. The national specifications and applicable safety regulations must be observed.

3. Over ride and relevant switch device

Daily programme – white
Weekly programme – blue
Switch advice – turn only in the direction of the marked arrow thereby preventing interference of the switch tappets.

**4. Current Advice**

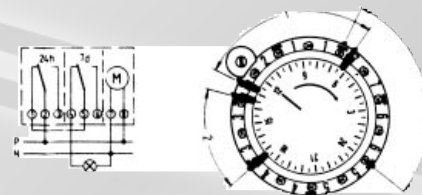
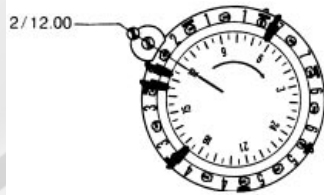
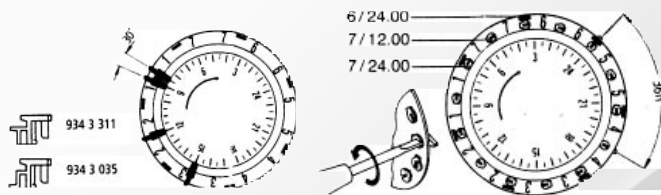
Appliances with Power reserve approx. 3d (72h) start automatically after a few minutes by applied voltage.
(Current advice for »a«).
The full power reserve will be reached after about 3 days.
Appliances without power reserve start immediately by applied voltage. (Current advice for »a«)

5. 24 Hour Dial Programming

Switch rider red: ref. 934 3 311
① ② on – ② ③ off
Switch-rider blue ref. 934 3 035
② ③ on – ① ② off

6. 7 Day Dial Programming

Switch segments switch alternatively ④ ⑤ and ⑤ ⑥ on – off. Switch segments will fault in function if turned through 90° to the left. Each of the 14 switch segments can be applied to ON and OFF switching.
Red = Sunday = 7
Blue = weekdays = 1 – 6

**7. Hour Time (Time of Day) Setting**

Time of day and switch point markings.
e. g. Tuesday = 2 / 12.00

Turn the 24 hour dial in the direction of rotation as far as the hour indicator, until the correct time is over the marker line and the suitable weekday of the 7 day dial appears over the same marker point.

8. Example of how to make use of it

(Say) Office lighting.

Control by means of 24 hr and 7 day switch dial.

Workdays: 6.15 – 12.45 and 13.30 – 17.15 lighting switched on.

Weekends: Interruption of the daily programmes through the week switching dial from Friday 24.00 hrs until Sunday at 24.00.