310 109 02

theben

Operating instructions

Frigga (FRI) 77h
Nr. 077 0 008

Frigga (FRI) 77g
Nr. 077 0 033

230 V~ ± 10 %

16(2,5) A, 250 V~

IP 20 nach EN 60529

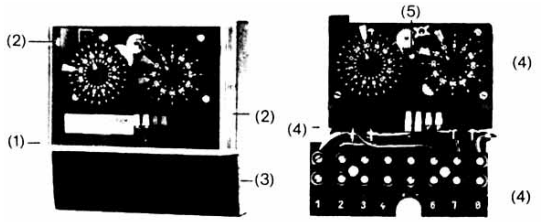
MOUNTING INSTRUCTIONS

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.

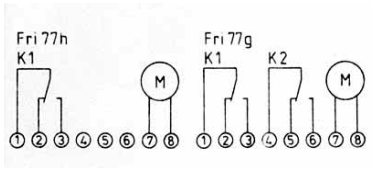
The time switches are in accordance with the European directives 73/23/EEC (Low-Voltage Directive) and 89/336 / EEC (EMC-Directive). If the time switches are used together with other devices in an installation, take care that the complete installation does not cause a radio interference.



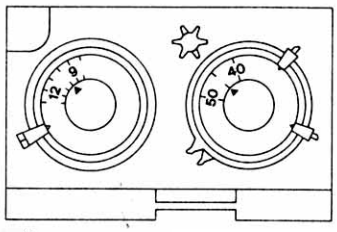
1. Check data
Motor voltage = mains voltage
Do not exceed switch capacity



2. Fitting
Remove transparent cover (1) on timer. Undo screws (2) Remove housing (3). Screw base plate firmly to la level base through three fastening holes (4). The most favourable ambient temperature for a long service life is from – 10° to + 50° C.

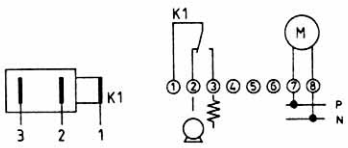


3. Connecting up
The timer is to be connected up according to the circuit diagrams above and under 5. The clock movement starts immediately it is connected to the power supply.
Check operation (5).



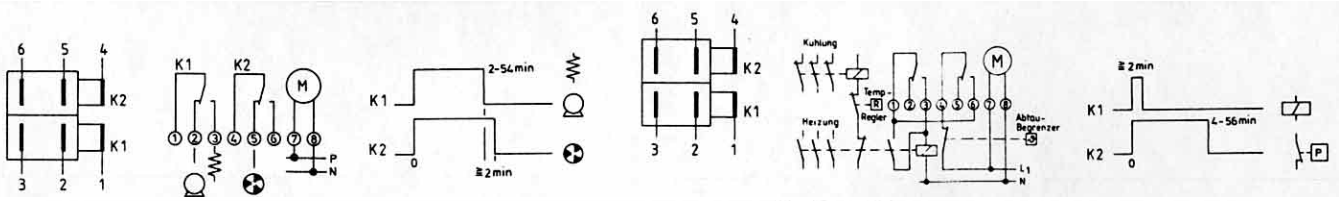
4. Function
The hour (hours), at which the short contacts are to be made, is/are to be preselected on the 24-hour switch dial. The short contact times are set on the 60-minute switch dial.

5. Circuit diagram



Cooling Defrosting

The green switch tappet on the 60-minute switch dial determines the duration of defrosting process. One or more red switch tappets on the 24-hour switch dial determine the time at which the defrosting process is to begin.

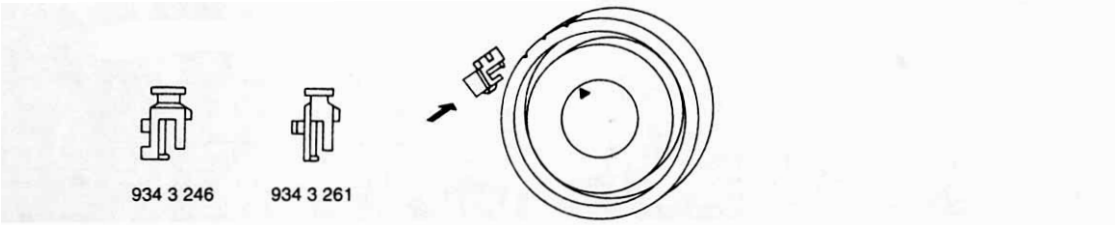


Ventilator

The first green switch tappet on the 60-minute switch dial determines the duration of the defrosting period, the second green switch tappet determines the time lag before ventilator is switched on.

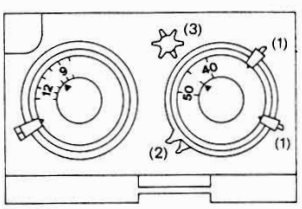
Relay Pressostat Thermostat

The first green switch tappet on the 60-minute switch dial determines the duration of the impulse contact, e.g. 2 minutes.
The second green switch tappet determines the safety period.

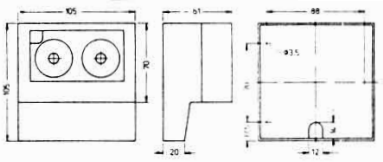


6. Setting the switching time
Place switch tappets at required switching times with nose facing outwards (see diagram above) on the switchdials and press downwards until they snap in.
Red switch tappet - Order No. 934 3 246 - for 24-hour switch dial, minimum switching interval 1 hour.
Green switch tappet - Order No. 934 3 261 - for 60-minute switch dial, minimum switching interval 2 minutes.

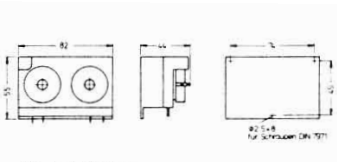
7. Setting time
Setting example 10.45 a.m.



a) Turn 60-minute switch dial clockwise to required time, making sure that the switch tappet (1) and switch nose (2) are outside the contact zone of the star wheel (3).
b) Set 24-hour switch dial at one hour before the correct time at least, e.g. 9 a.m., and always on the full hour.

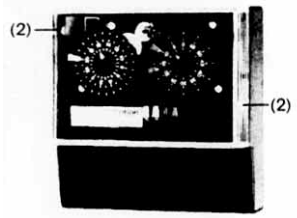


Nr. 0770008
Nr. 0770033



(Nr. 0770801)
(Nr. 0770831)

c) Turn 60-minute switch dial clockwise until 24-hour switch dial and 60 minute switch dial indicate the correct time (proper time) e.g. 10.45 a.m. The switch tappets of the 60-minute switch dial automatically turn the 24-hour switch dial via the star wheel



8. Replace housing
Do up both screws (2) tightly and press fit transparent cover.

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