

Wall mounting

Short-time and defrost time switches



24 h

60 min



FRIGGA 77



FRIGGA 77-2

FRIGGA 77 FRIGGA without power reserve

- Synchronous time switches without power reserve for surface-mounted installation
- Short-time switches to control for example defrosting operations in refrigerating and ventilating systems
- Sturdy clock mechanism with two separate program dials
- 24 hour program dial for preselection of the hour at which brief switching should occur.
- 60 minute program dial for adjustment of brief contacting duration.
- Type "g" allows delayed switching of the ventilator

Segments for FRI 77

red

Order No.

934 3 246



green

Order No.

934 3 261



Common technical data:

Nominal voltage: 230 V~, +10 %/-15 %

Frequency: 50 Hz

Power consumption: approx. 2.5 VA

Contact: gap less than 3 mm (μ), potential-free, not for SELV

Contact material: AgCdO

Switching capacity:

16 A, 250 V~, cos φ = 1

2.5 A, 250 V~, cos φ = 0.6

Switching accuracy: depending on the net frequency

Permissible ambient temperature: -10 °C...+50 °C

Housing and insulating material:

high temperature resistant, selfextinguishing thermoplastics



Protection class:

IP 20 in accordance with EN 60 529

Special version without housing IP 00

Degree of protection:

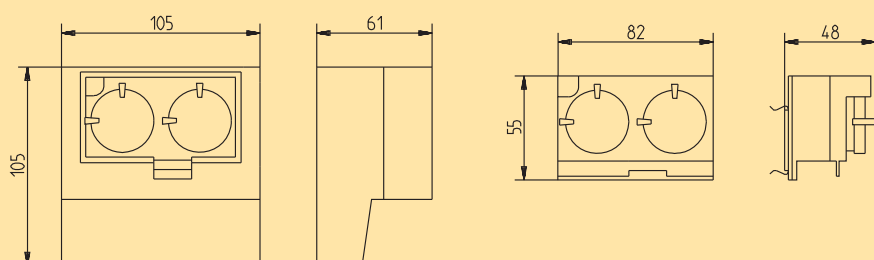
II in accordance with EN 60 730-1

Test approvals: national and international depending on device type  

Weight: 265 g (with housing)

Wiring diagrams see page 120.

Dimension drawings



Design:

- FRI 77: Housing for wall mounting, with transparent cover.
- FRI 77-2: Mechanism without housing with snap-on fixing for top-hat rails (35 mm, DIN EN 50 022), can be attached horizontally or vertically

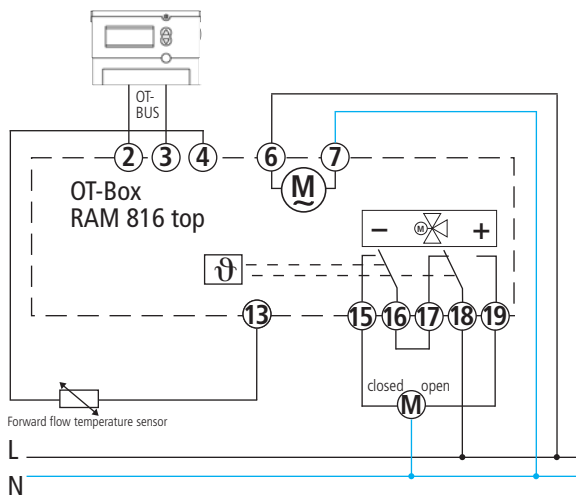
Type	Program dial	Design in mm	Programmable every ...	Minimum switching interval	Tappet complement	Switching contacts	Nominal current at 250 V~	Order No.
FRI 77 h	60 min 24 h	wall mounting 105 x 105 x 61	1 minute/ 1 hour	2 minutes/ 1 hour	2 x green 4 x red	1 change-over switch	16 (2.5) A	077 0 008
FRI 77 g	60 min 24 h	wall mounting 105 x 105 x 61	1 minute/ 1 hour	2 minutes/ 1 hour	4 x green 4 x red	2 change-over switches	16 (2.5) A	077 0 033
FRI 77 h-2	60 min 24 h	drive with rapid mounting 55 x 82 x 48	1 minute/ 1 hour	2 minutes/ 1 hour	2 x green 4 x red	1 change-over switch	16 (2.5) A	077 0 802
FRI 77 g-2	60 min 24 h	drive with rapid mounting 55 x 82 x 48	1 minute/ 1 hour	2 minutes/ 1 hour	4 x green 4 x red	2 change-over switches	16 (2.5) A	077 0 832

Wall mounting

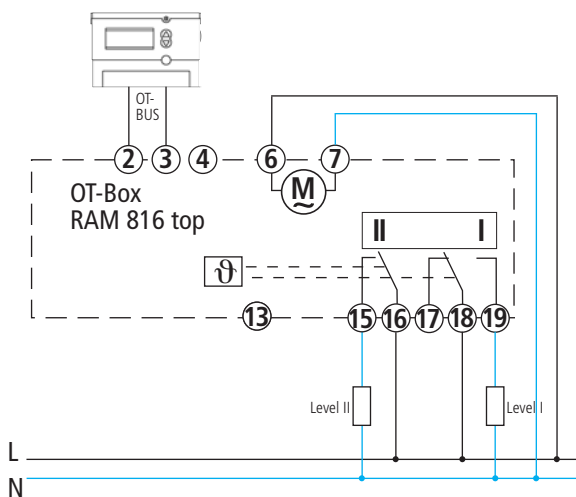
Wiring diagrams

OT-BUS: 2-wire BUS between control device and switching unit.

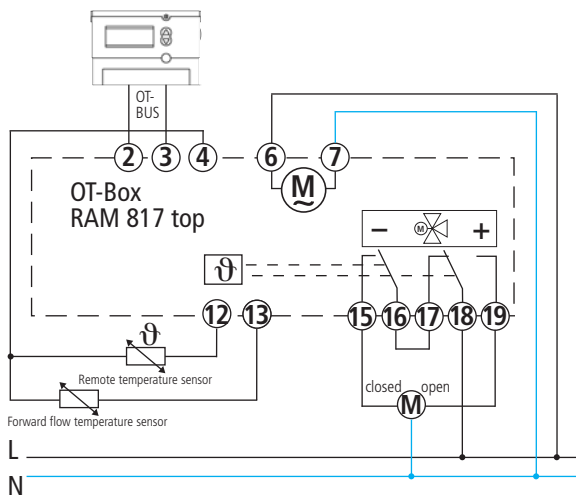
The BUS wire carries protective low voltage. Maximum BUS wire length 100 m.



RAM 816 top controls mechanical mixing valve

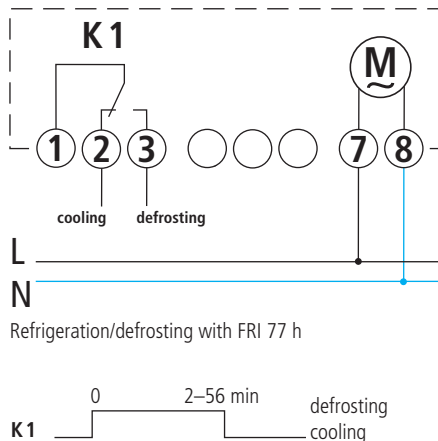


RAM 816 top controls 2 heating stages
(2-stage blower, under-floor heating, radiators etc.)

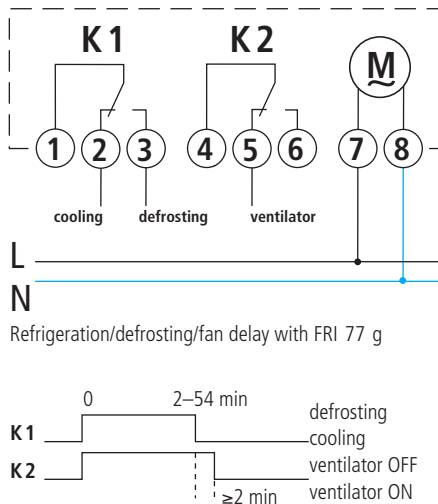


RAM 817 top controls mechanical mixing valve

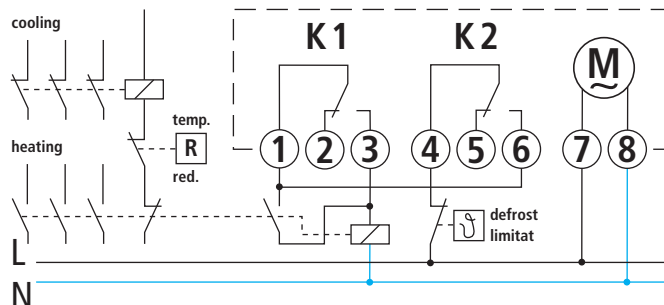
FRIGGA-switching examples with diagram:



Refrigeration/defrosting with FRI 77 h



Refrigeration/defrosting/fan delay with FRI 77 g



Refrigeration/defrosting with pressostat and thermostat switching with FRI 77 g

