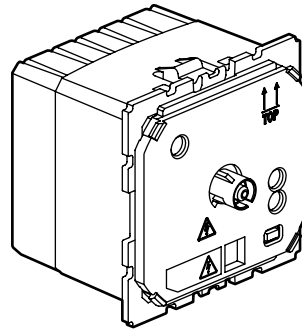# Thermostat Céliane
# with control input

Catalogue number(s) : 674 10

1. USE

The thermostat may be used for all kind of heating systems, especially for electrical or water heated convectors / radiators in a room. It may be used with floor- or ceiling heating systems, too.

The thermostat has a terminal for a fil pilote wire. With this wire the thermostat may be controlled from remote with signals according to the fil pilote standard. It recognizes the following six commands:
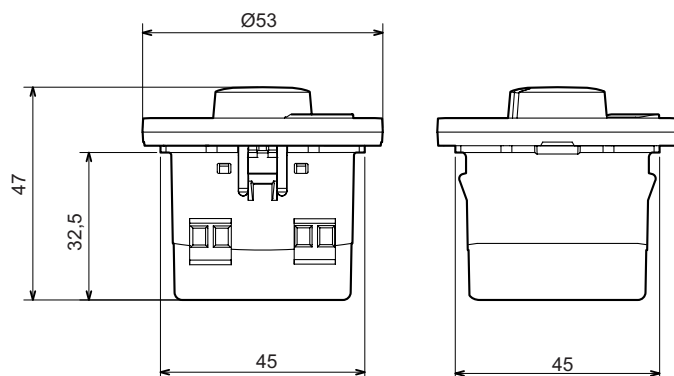Confort, confort-1, confort-2, eco, hors gel, arret.

2. RANGE

	Designation	Catalogue number	Number of modules	Connection mode	Weight(g)	Characteristics
	Thermostat	674 10	2	with screw	75g	230 V∼ 50/60Hz

3. PREPARATION

≤40 mm

① ② ③ ④

* not delivered with the mechanism
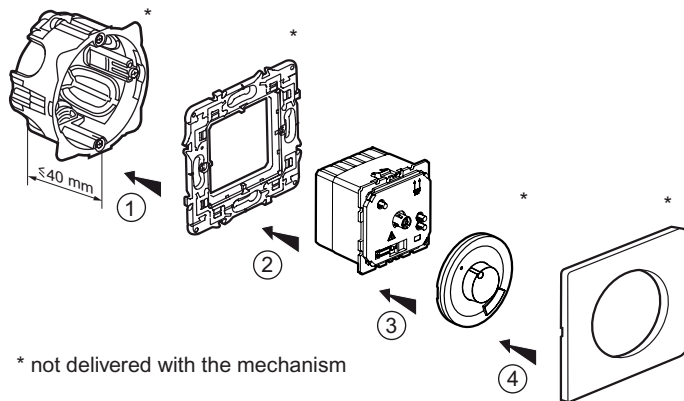
4. OVERALL DIMENSIONS

Ø53
47
32,5
45
45

5. CONNECTION

Number of terminals	5
Type of terminals	with screw
Length of stripping	6 mm
Capacities of the terminals	1 x 2,5 mm² flexible or rigid
Tool	Flat screwdriver 3,5 mm

230 V∼ N L

réf. 040 49

↑FP N L

> 4A

Fil pilote

• 038 18
• 674 12
• 674 13

≙ fil pilote standard 6 orders

FP N L

L 230 V ∼
N

Fil pilote

≤ 4A

• 038 18
• 674 12
• 674 13

≙ fil pilote standard 6 orders
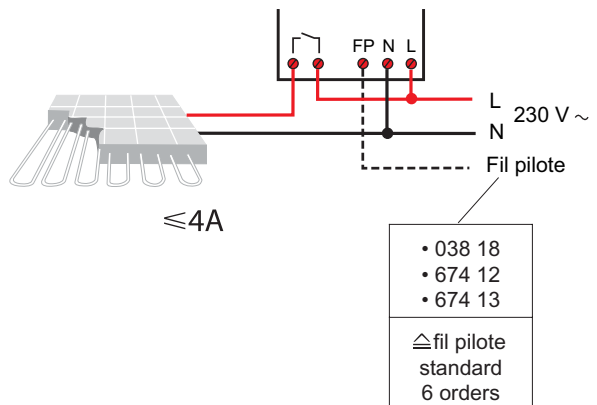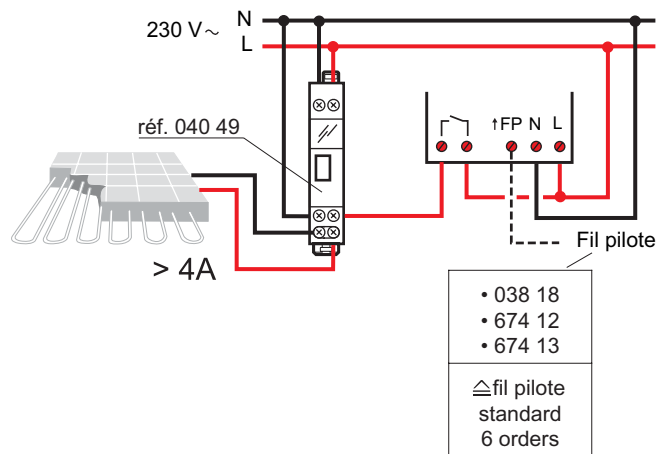
Maximum operation distance : 50 m

Thermostat Céliane
with control input

6. FUNCTION

The thermostat has a built in temperature sensor. The output uses a relay contact, so it is either on or off. Internally the device employs an algorithm with a proportional zone and feedback to achieve a low ripple of the controlled temperature. This means, that the thermostat doesn't switch at fixed temperatures within the room. The actual switching depends on the temperature and the respective characteristics of thermostat, room and mounting place.

The actual set-point is adjustable with the turning knob between 7 ... 30°C. In the confort state this set-point is directly used for the temperature level of the room. In the other states the temperature is reduced according to the following table:

|			
Confort	=	set-point	upper right LED
Confort-1	=	set-point – 1 K	upper right LED(*)
Confort-2	=	set-point – 2 K	upper right LED(*)
Eco	=	set-point – 4 K	lower right LED
Hors gel	=	fix at 7°C	top left LED
Arret			all off

The actual state is indicated with the LEDs on the device (see in table above). The LEDs are lighting steadily, if the device is controlled from the fil pilote signals. It is also possible, to force the state manually; in this case the LEDs are blinking.

With the push-button on the right it is possible to put the thermostat in the manual mode. Pressing the button several times circles from the AUTO mode with the following steps back to AUTO

Start:	AUTO
1st press:	MAN forced confort
2nd press:	MAN forced eco
3rd press:	MAN forced hors gel
4th press:	AUTO

During one of the MAN modes the device doesn't respond to fil pilote signals.
In old devices (prior to Feb. 08) the lower right LED is lighting in this case.
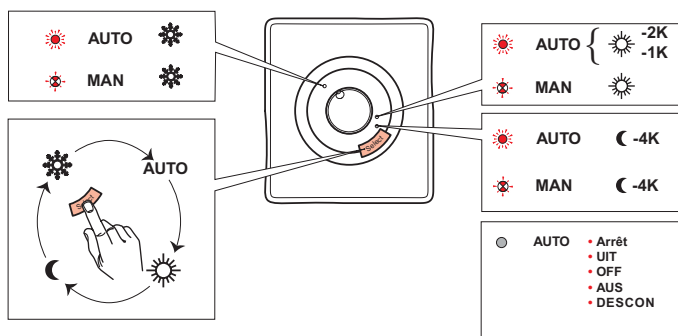
7. GENERAL CHARACTERISTICS

7.1 Mechanical caracteristics

Impact tests : IK 04
Penetration of body solides/liquides : IP 41 (C15-100)

7.2 Material caracteristics

Polycarbonate

7.3 Electrical caracteristics

Glow wire test (IEC 60 695-2-10, -2-11 : 650°C/30 s
Voltage : 230 VAC
Frequency : 50/60 Hz

7.4 Climatic caracteristics

Storage temperature : -10°C à +60°C
Ambient temperature : -5°C à +50°C

8. MAINTENANCE

Without maintenance

9. CONFORMITY - APPROVALS

Approvals in progress : NF - CEBEC - BBJ - EZU