

# Immersion safety and regulation bi-thermostat K373Y022

Datasheet  
0465EN  12/2019



**CE** 0497  
**INAIL**

 **NOTE.** Thermostat K373Y021 complies with the regulations of INAIL "R" collection - Technical application specifications of Title II of Ministerial Decree 1.12.75 (Italy).

The K373Y022 is a bi-thermostat for use in a boiler room, INAIL-compliant.

The device is an immersion one (with a sensitive bulb to be inserted in the housing).

The bi-thermostat combines regulation and safety (manual reset) functions in one single device.

**Regulation function** - The device has an automatic-type regulation function: when the water temperature set on the graduated knob (on the front, with a range of 0÷90 °C) is reached, the heat flow from the generator is interrupted. The flow restarts automatically when the water temperature falls below the set value.

**Safety function** - The device has an automatic-type lockout function: when the calibration temperature of the limiter (pre-set in the factory at a value of 100 °C) is reached, the heat flow from the generator is interrupted.

The flow restarts when the water temperature falls below the set calibration value.

The reset can only be made manually (using a tool, if necessary).

## ➤ Versions and product codes

| PRODUCT CODE | CONNECTION |
|--------------|------------|
| K373Y022     | 1/2"NPT-M  |

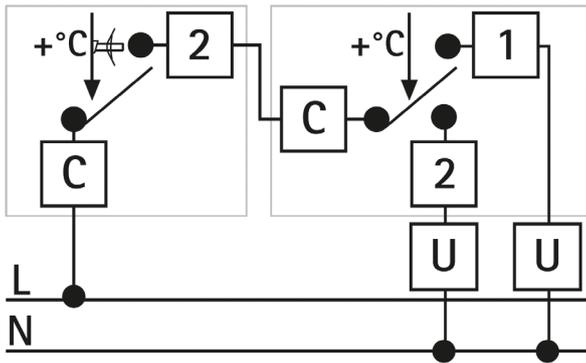
## ➤ Compliance

- Compliance with standards EN 60730-1 e EN 60730-2-9
- Compliance with Directive 2014/35/UE (Low Voltage)
- Compliance with Directive 2014/30/UE (Electromagnetic Compatibility)
- CE mark
- Compliance with Directive "PED" 2014/68/UE
- INAIL-approved.

## ➤ Technical data

- Tolerance: ±5 K (regulator); -6 K (limiter)
- Differential: 4 ±1 K (regulator); 15 ±8 K (limiter)
- Limiter factory calibration 100 °C (+0/-6 °C)
- Thermal gradient: < 1 K/min
- Time constant: < 1 min
- Max. head temperature: 80 °C
- Max. bulb temperature: 125 °C
- Bulb length: 97 mm
- Housing (included): 1/2"NPT-M; length 100 mm
- Max. working pressure 10 bar
- Temperature regulation through the knob: 0÷90 °C
- Manual reset button
- Output contacts (interruption or switchover)
- Regulator contact capacity: 10 (2,5) A/250 V (contact 1)  
6 (2,5) A/250 V (contact 2)
- Limiter contact capacity: 10 (2,5) A/250 V (contact 2)
- 2 fairleads: M20 x 1,5 mm
- Protection degree: IP40
- Insulation class: I
- Storage temperature: -15÷55 °C

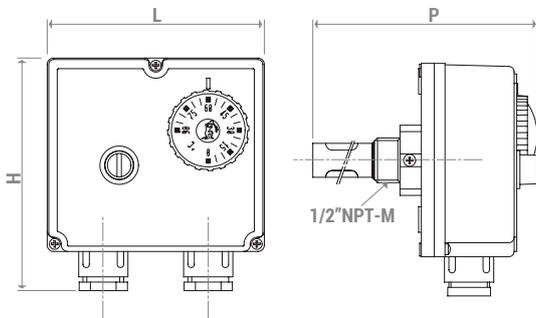
## Electrical connections



|           | TERMINAL | FUNCTION  |
|-----------|----------|---|
| LIMITER   | 2        | Opens the circuit with the increase in temperature  |
|           | C        | Common input  |
| REGULATOR | 1        | Opens the circuit with the increase in temperature  |
|           | 2        | Closes the circuit with the increase in temperature |
|           | C        | Common input  |

**▲ WARNING.** The device must be installed and wired up by specialised personnel only, scrupulously respecting the current safety standards and legal requirements.

## Dimensions



| PRODUCT CODE | L [mm] | H [mm] | P [mm] |
|--------------|--------|--------|--------|
| K373Y022     | 101    | 113    | 162    |

## Product specification

### K373Y022

Installation safety and regulation bi-thermostat. Installation with sensitive bulb inserted in heating system pipes. Housing 1/2"NPT-M included. Max. working pressure 10 bar. Temperature regulation through the knob: 0÷90 °C. Max. head temperature: 80 °C. Max. bulb temperature: 125 °C. Button for manual reset. Limiter factory calibration 100 °C (+0/-6 °C). Dimensions: 101x113x162 mm (LxHxD). Compliance with standards EN 60730-1 e EN 60730-2-g. Compliance with Directive 2014/35/UE (Low Voltage). Compliance with Directive 2014/30/UE (Electromagnetic Compatibility). CE mark. Compliance with Directive "PED" 2014/68/UE. INAIL-approved.

**▲ Safety Warning.** Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

**♻️ Package Disposal.** Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

**ℹ️ Additional information.** For more information, go to [giacomini.com](http://giacomini.com) or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

**♻️ Product Disposal.** Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.