

INSTRUCTION TF



REV. , 2024-09-26

Note! More information about the product can be found in the product sheet, which is available for download from www.industrietechnik.it

Caution! Read and understand the instruction before using the product.

Caution! Ensure that the installation complies with local safety regulations.

Warning! Before installation or maintenance, the power supply must first be disconnected in order to prevent potentially lethal electric shocks! Installation or maintenance of this unit should only be carried out by qualified personnel. The manufacturer is not responsible for any eventual damage or injury caused by inadequate skills during installation, or through removal of or deactivation of any safety devices.

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Application

Suitable for heat exchanger (evaporation batteries) and hot-water heating registers for air conditioning and refrigeration systems and can be used anywhere temperature must not drop below a certain fixed safety value.

Technical Data

Contacts rating	15 (8) A; 24-250 Vac
Humidity	10...95% rh, non-condensing
Range	-10°C...+10°C

Contacts	1 dust-tight microswitch with switching contacts
Housing	Base in ABS, transparent PC
Storage	-30°C...+60°C
Housing temperature	max. +55 °C
Max. capillary temp	max. +150 °C
Protection	IP65
Protection class	I
Sensible element	gas-filled copper capillary
CE standards	EN 60335-1:2012, EN55014- 1:2006, EN55014-1:2006/ A1:2009, EN55014-1:2006/ A2:2011

Accessories

Article	Description
DBZ-01	Pocket, brass 120 mm [TF18, TF18R]
DBZ-02	Pocket, stainless steel 120 mm [TF18, TF18R]
DBZ-05	Set of 6 mounting brackets for capillary fixing [TF30, TF60R]

Installation

The 3 or 6 m capillaries are active on full length for a minimum of 500 mm. The unit with 1,8 m capillary is equipped with a power-element and only that is active. Any position is acceptable. It is recommended to install the unit with the cable gland downwards to avoid condensation entering into the unit. For mounting and connection remove the cover to gain access to fixing holes and use the sealing gaskets together with the fixing screws for the installation. The capillary tube must be held by the anti-kink device on the diaphragm pot during the unwinding operation. It is recommend to mount the unit on places not directly exposed to sunlight and far from vibration sources. After the unit is installed choose the temperature on the range -10...+10°C (Fig. 2) with the knob. If the temperature of capillary sensed is under the temperature required, the unit will work with the tolerance indicated.

Schedule

Range	Model	Stages	Differential	Reset	Protection	Capilarity length
-10...+10	TF18	1	2	auto	IP65	1,8
-10...+10	TF18R	1	FT	man	IP65	1,8
-10...+10	TF30	1	2	auto	IP65	3
-10...+10	TF30R	1	FT	man	IP65	3
-10...+10	TF60	1	2	auto	IP65	6
-10...+10	TF60R	1	FT	man	IP65	6

-10...+10	TF150	1	2	auto	IP65	15
-10...+10	TF150R	1	FT	man	IP65	15

FT: Manual minimum reset

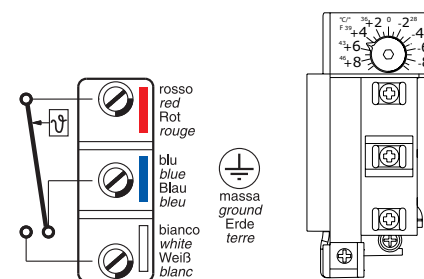
Electrical wiring

Heating:

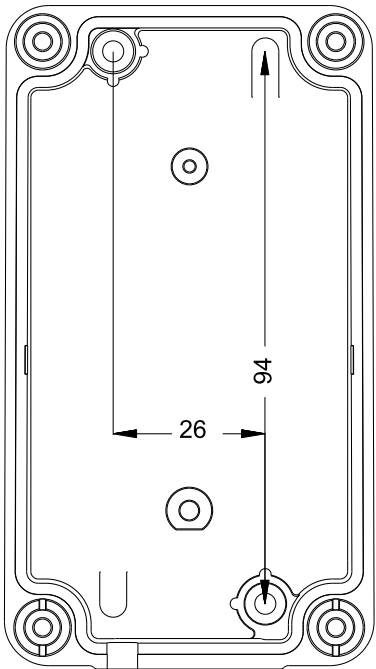
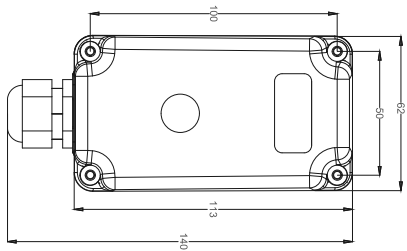
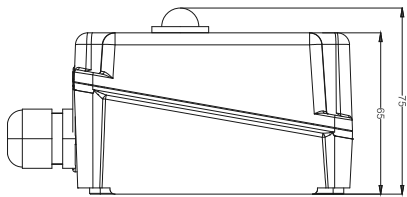
Connect to red and blue terminals; the contact opens while temperature is rising.

Cooling:

Connect to red and white terminals; the contact opens while temperature is dropping.



Dimensions



This product carries the CE-mark. More information is available at www.industrietechnik.it.

Contact

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