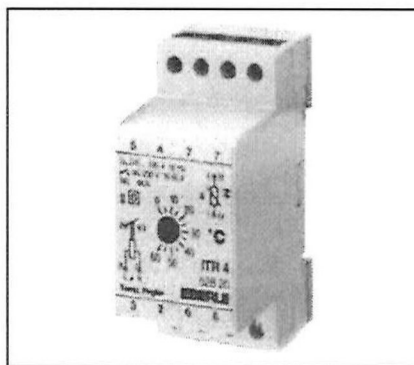


Mounting and operating instructions for temperature controller 528 20 ITR 4



Note!

This device must be installed by an expert according to the circuit diagram on the housing. The existing safety regulations must be complied with. This electronic regulator is designed to be installed in the control panel and is suitable for installation in dry and closed rooms with standard atmospheric conditions. The device conforms to EN 60730, it works according to operating principle 1C.

Mounting

The controller is snap fixed on to 35 mm standard rail. Electrical connection is made according to printed wiring diagram.

Function

The electronic temperature controller 528 20 is only operational with the remote sensor which is supplied with the controller. The desired value can be set with a screw driver on the front of the controller.

If the sensor temperature is lower than the set temperature contacts 2 and 3 are closed. During power failure or sensor malfunction the contact opens.

The electronics is supplied by means of capacitive voltage divider.

Sensor

– Standard sensor

This is particularly suitable for measuring liquids. When using the sensor in liquids or pressurized containers a protective tube must be provided.

– Pipe sensor

This should ideally make contact with the whole surface (ideal pipe diameter 28 mm). It is best fixed by means of hose connector.

– Air sensor

The monitoring ducts of the air sensor have to be positioned in the air flow direction.

The sensor cable with a cross-section of 1,5 mm² can be extended up to 50 m, without adverse effect on the accuracy of the controller.

Screening is not necessary. The sensor extension must fulfil the requirements of protection class II.

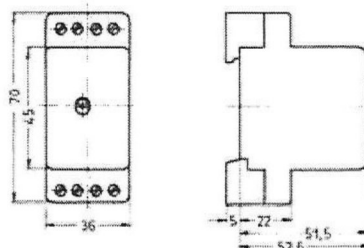
Technical Data

Operating voltage (21 ... 27 V UC)	220 ... 240 V, 50 Hz (187 ... 264 V) 220 ... 230 V, 60 Hz (187 ... 242 V)
Switching capacity	AC 250 V, 10 (4)A
Total current on clamp 6, 7	≤ 16 A
Temperature range	0 ... 60 °C
Ambient temperature	
Operation	0 ... 40 °C
Storage	-25 ... 70 °C
Switching differential	1 K
Contact	One closed contact, potential free*
Sensor resistance	1 kΩ ± 1 % for 25 °C and 1 mA
Pollution degree	2
Rated impulse voltage	4 kV
Ball pressure test temperature	75 ± 2 °C
Voltage and Current for the purposes of interference measurements	230V, 10A
Energy class	I = 1 % (acc. EU 811/2013, 812/2013, 813/2013, 814/2013)

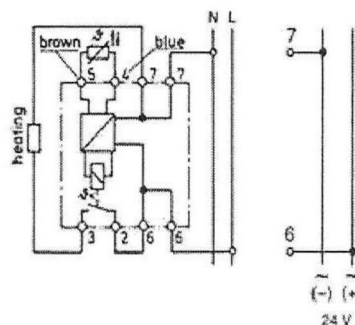
*) Attention


The potentialfree contacts of this mainoperated device do not guarantee a possible demand for a safety extra low voltage SELV (safe isolation).

Dimensions



Wiring diagram



 This product should not be disposed of with household waste. Please recycle the products where facilities for electronic waste exist. Check with your local authorities for recycling advice.