

**CAPILLARY THERMAL CUTOUT
KNTP 8812.02, KNTP 8813.02,
KNTP 8814.02, KNTP 8823.02**



Description

KNTP 881*.02 is unipolar and KNTP 8823.02 is bipolar capillary disconnecting thermal cutout based on liquid dilatation principle. KNTP consists of two main parts: the switching mechanism and the capillary thermal sensor. The cutout features safety grounding pin on the cover and a RESET button on the base plate (re-connects the electrical circuit). KNTP are intended to be built in, the IP code is 00. KNTP switches off when the set temperature is exceeded (the temperature set in the production according to the specification from a customer).

Installation

Installation and connection of the device into the electrical circuit must be done by a person with necessary qualification required in the respective country for electrical works. During installation, follow these steps:

- The cutout can be installed only into appliances specified by this manual (class I), the connecting clips must be under a non-removable cover.
- Connecting of the clips to electrical current and connecting of the grounding pin shall be done using hollows 6, 3x0,8 mm according to EN 61210.
- Any bends of the capillary should have the minimum radius R=5 mm.
- The length of the M4 fixing screws chose so that they do not interfere with the switching mechanism when fastened, fasten the screws with the torque of 1,2 Nm to the control panel or beam.
- Switching head can be mounted into space with following deviations AE1, AM1, AN1,

BE1, the capillary system must not get into contact with aggressive chemicals.

- Insert the entire sensor KNTP + minimum 2 cm of the capillary system into the measured liquid.
- The cutout shall be placed so that, after removal of the protective cover, the RESET button could be accessed.
- KNTP 8814.02 – capillary system that can be touched must be grounded each 5 cm.

Indented use

The thermal cutout is not intended as main switch. It is not permitted to switch on KNTP by persons without electrical necessary qualification (in accordance with local national legislative). KNTP must not be switched on when under power. KNTP is intended for limiting temperatures in appliances heated with alternative current at abnormal working conditions and temperature ranges as specified in the technical data sheet at temperature set by the manufacturer. KNTP 8823.02 are intended solely for use in 1 phase appliances (with nominal voltage up to 250 V), for home and similar purposes, which are subject to EN 60 335-1. KNTP 881** are intended solely for 1 phase appliances (with nominal voltage up to 240 V), for home and similar purposes, which are subject to EN 60 335-1. KNTP are intended for limiting temperature in these appliances:

- KNTP 8812.02 washing machines with heating unit
- KNTP 8813.02 radiators filled with liquids
- KNTP 8814.02 stabile baking ovens
- KNTP 8823.02 water tanks of stabile accumulative water heaters permanently connected to power supply

After fitting KNTP into the appliance, follow the operating instructions of the respective appliance.

Affecting other products

As a result of switching the contacts of KNTP, a short voltage fluctuation may occur, which is superimposed into the voltage amplitude.

Dats sheet

Type of cutout	KNTP 8812.02	KNTP 8813.02	KNTP 8814.02	KNTP 8823.02
Range of switch off temperatures T _{rozp}	35 – 99 °C	35 – 80 °C	50 – 320 °C	99 °C
Variance of the switch off temp.	-6 °C	-6 °C	-20 °C	-10 °C
Nominal current	16 (2,6) A	16 (2,6) A	16 (2,6) A	16 A
Nominal voltage	240 V ~	240 V ~	240 V ~	250 V ~
Surrounding temperature	(0-150) °C	(0-150) °C	(0-150) °C	(0-85) °C

limits				
Maximum sensor temperature	110 °C	90 °C	330 °C	110 °C
Temp. of possible mech. switch off	T _{rozp} -10 °C	T _{rozp} -10 °C	T _{rozp} -15 °C	T _{rozp} -15 °C
Weight	80 g	75 g	70 g	100 g
IP code	IP 00	IP 00	IP 00	IP 00
	I	I	I	I
Guaranteed number of switch off cycles	300	300	300	300
Min. radius for capillary bending R _{min}	5 mm	5 mm	5 mm	5 mm
Connecting clips	Flat pins 6,3x0,8 mm	Flat pins 6,3x0,8 mm	Flat pins 6,3x0,8 mm	Flat pins 6,3x0,8 mm
Type of switch off	Micro cut off	Micro cut off	Micro cut off	Total cut off

Storage

Store packed KNTP in rooms with temperatures from 0 to 45 °C, relative humidity up to 75 % and without harmful gases. Avoid mechanical damage of the devices during transport and storage. Protect cutouts from shocks and shaking.

Disposal



"This device is subject to a waste management in accordance with local legislation."

Troubleshooting

This device is subject to a waste management in accordance with local legislation.

Warranty conditions

Manufacturer provides 2 year warranty according to valid legislative (unless agreed otherwise). The warranty is void if the product is used in conflict with the instructions for installation and operation stated in this manual.

Producer may reject a warranty claim when the device was damaged:

- during the transport or storage by the customer, his partners or customers
- at installation or dismounting into the appliance
- due to unqualified use or installation into other appliance than specified in the manual
- when KNTP is installed in other environment than specified in the manual

Warranty

Any warranty and post warranty defects should be repaired by the manufacturer. Please pack a defective product safely and send to:

APATOR METRA s.r.o.

Havlíčková 919/24
787 01 Šumperk
Czech Republic

Tel.: 583 718 263

Fax: 583 718 150

E-mail: prodej@metra-su.cz

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