

IP54

1 196M

## Electronic temperature control with 3-point output

RAKE723...

in protective housing, for wall mounting including accessories



Registered under DM/066 622

Electronic temperature control with 3-point output with adjustable proportional range, neutral zone and mixing valve operating time

### Application

Electronic temperature control for applications in boilers and on heating-, ventilation-and air conditioning equipment. To be fitted with a bracket.

### Features

- Status indication by LED for power supply and control status
- The set temperature value is not sensitive to temperature changes on the housing (max.  $\pm 1K$ ).
- Two, on the contact side reciprocally locked, relays
- Time factor for the pocket according DIN 3440

### Type summary

Type	Order- Nr.	Range , adjustable[°C]	Pocket length
RAKE723.0110M*	011-6521	0 ... 60°C / 60 ... 120°C	0,8 m
RAKE723.0111M*	011-6522	0 ... 60°C / 60 ... 120°C	1,5 m
RAKE723.0112M*	011-6523	0 ... 60°C / 60 ... 120°C	3,0 m
RAKE723.0113M*	011-6524	0 ... 60°C / 60 ... 120°C	5,0 m
RAKE723.0114M*	011-6525	0 ... 60°C / 60 ... 120°C	10,0 m
RAKE723.0115M*	011-6526	0 ... 60°C / 60 ... 120°C	15,0 m

\* Sensor holder for duct fitting to be ordered separately, see dimensional drawing.

### Technical data

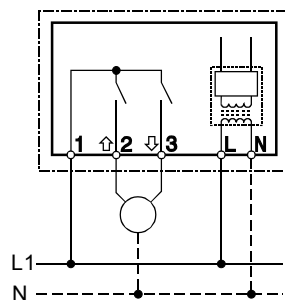
Power supply	Voltage	230VAC -15...+10%, 50Hz	
	Power consumption	approx. 3VA	
Switching power	Low voltage part	Protection isolated	
	Nominal voltage range	AC 24...250 V / DC 20...300 V	
	Nominal current range I (I <sub>M</sub> )	0.05...4(4) A cos $\varphi \geq 0,6$	
	Service life at nominal load	min. 100'000 operations	
Settings	Setting range	set temperature	
	DIP - switch:	Double scale 0 ... 60°C / 60 ... 120°C	
		DIP1 Off: 0...60°C	DIP1 On: 60...120°C
		DIP2 Off: $\pm 20K$	DIP2 On: $\pm 10K$
		DIP3 Off: $\pm 3K$	DIP3 On: $\pm 1,5K$
	mixing valve operating time	DIP4 Off: $\geq 30s$	DIP4 On: $\geq 60s$

Sensor	Measuring element Measuring range	Pt1000 class B (DIN EN 60 751) -20 ... +140°C
Calibration	Calibration tolerance Time factor in water / in oil	± 1 K < 45 s / < 60 s
Ambient conditions	Housing temperature range Max. sensor temperature Ambient temperature for storage and transportation	0 ... 50°C (T50) 200°C -20 ... +60°C
Standards	CE - conformity EMC noise emission EMC noise immunity Product standard Operation mode Protection class	Guide line 89/336/EWG, 93/68/EWG EN50081-1/EN55022B EN50082-2/EN60730 EN60730-1/-2...-9 Type 1C (EN60730-1/-2...-9) II according EN60730
Execution	Protection mode Socket  Cover  Pocket length R Electrical connection Cable bushing Weight without packaging and pocket	IP54 according EN 60 529 Polyamide reinforced (PA), temperature stability up to 120°C Polycarbonate (PC), temperature stability up to 120°C 100, 150, 200, 280, 450 or 600 mm Screw terminals M20 and M16 approx. 255 gr.

## Fitting notes

Check the mounting instructions inside the packaging.

## Wiring diagram/ status indicators



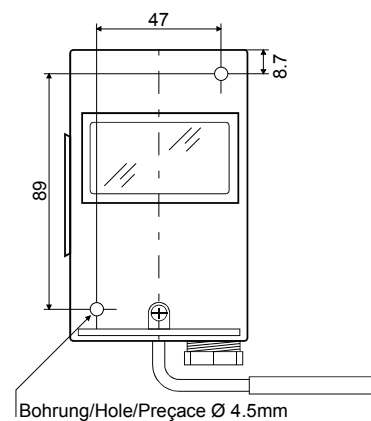
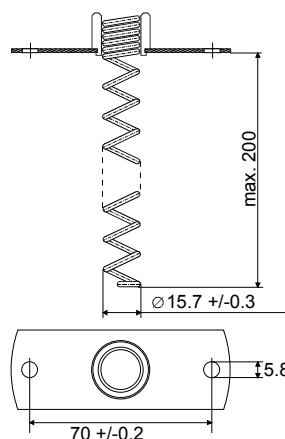
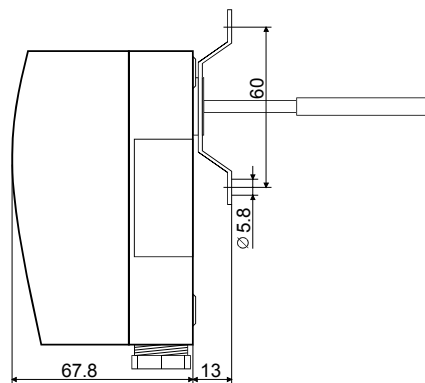
Supply status:

yellow LED

Relays status double - LED:

heating red LED  
cooling green LED

## Dimensions



Socket	005-1054
Cover	005-0551.3
Sensor holder	005-0591
Bracket	005-0412