

2-point control

Electronic
Temperature control

RAKE722...

in protective housing, with accessories for on-wall mounting



Registered under DM/066 62

Electronic control thermostat with adjustable thermal differential

Application

Replacement for electromechanical thermostats where tight tolerances and/or an adjustable thermal differential are required.

For applications in boilers and on heating-, ventilation-and air conditioning equipment. The device is mounted on a bracket for on-wall fixing.

Features

- If nominal value is reached, the change-over switch is activated.
- The nominal value is not sensitive to temperature changes on the housing (max. ± 1 K).
- Single-pole relays with change-over switch.
- Time factor for the sensing element acc. EN 14597

Type summary

Type	Order-no.	Range [°C]	Cable length	Type	Order-No.	Range [°C]	Cable length
RAKE722.0000M*	011-6201	-20...40	0.8m	RAKE722.0040M*	011-6241	80...140	0.8m
RAKE722.0001M*	011-6202	-20...40	1.5m	RAKE722.0041M*	011-6242	80...140	1.5m
RAKE722.0002M*	011-6203	-20...40	3.0m	RAKE722.0042M*	011-6243	80...140	3.0m
RAKE722.0003M*	011-6204	-20...40	5.0m	RAKE722.0043M*	011-6244	80...140	5.0m
RAKE722.0004M*	011-6205	-20...40	10.0m	RAKE722.0044M*	011-6245	80...140	10.0m
RAKE722.0005M*	011-6206	-20...40	15.0m	RAKE722.0045M*	011-6246	80...140	15.0m
RAKE722.0020M*	011-6221	30...90	0.8m	RAKE722.0060M*	011-6261	130...190	0.8m
RAKE722.0021M*	011-6222	30...90	1.5m	RAKE722.0061M*	011-6262	130...190	1.5m
RAKE722.0022M*	011-6223	30...90	3.0m	RAKE722.0062M*	011-6263	130...190	3.0m
RAKE722.0023M*	011-6224	30...90	5.0m	RAKE722.0063M*	011-6264	130...190	5.0m
RAKE722.0024M*	011-6225	30...90	10.0m	RAKE722.0064M*	011-6265	130...190	10.0m
RAKE722.0025M*	011-6226	30...90	15.0m	RAKE722.0065M*	011-6266	130...190	15.0m

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

Technical data

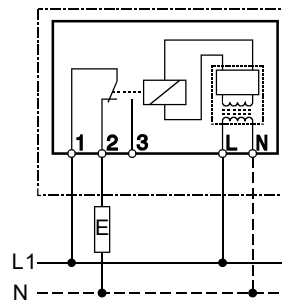
Power supply	Voltage	230 V~ -15...+10 %, 50 Hz
	Power consumption	approx. 3 VA
Switching power	Nominal voltage range	12...250 V~ 10...300 V DC
	Nominal current range I (I _M)	0.1...8(4) A

Application range	Adjustable cut-off temperature ϑ_{off}	see „Type summary“
	Thermal switching differential	0.5 K to 15.5 K
	Base value	0.5 K
	- with DIP switch adjustable values	DIP1 = +1 K
		DIP2 = +2 K
		DIP3 = +4 K
		DIP4 = +8 K
	Ambient temperature on housing	0...50 °C (T50)
	Max. sensing element temperature	200 °C
	Ambient temperature for storage and transport	-25...+70 °C
Sensor	Sensor Type	Pt1000 class B (EN 60751)
	Measuring range	-20...+200 °C
Calibration	Calibration tolerance	± 1 K
	Time factor in water / in oil	<45 s / <60 s
Specification	Protection mode of housing	IP66 acc. EN 60529
	Housing socket	Polyamide reinforced (PA), temperature stability up to 120 °C
	Housing cover	Polycarbonate (PC), temperature stability up to 120 °C
	Electrical connection	Screw terminals
	Cable bushing	M20 and M16
	Weight without packaging and accessories	approx. 255 gr.

Fitting notes

See the mounting instructions inside the packaging.

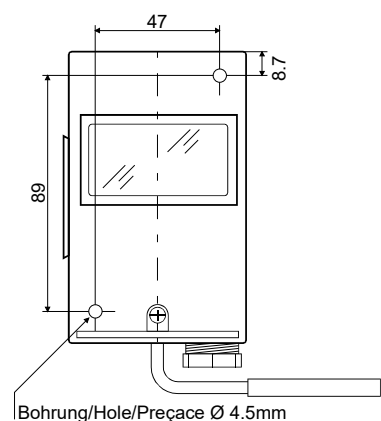
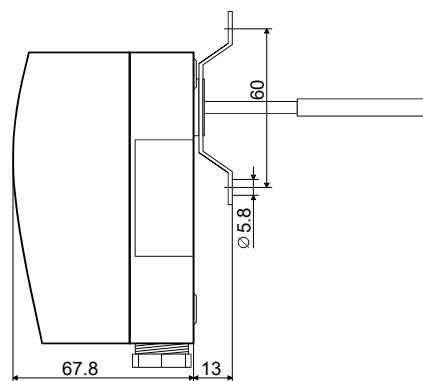
Wiring diagram/ status indicators



Supply status 1 LED yellow

Relays status contacts 1-2 1 LED red

Dimension drawing



Bohrung/Hole/Preçace Ø 4.5mm

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

