ASKOMA

ASKOTRONIC IP 66

1 194M

2-point control

Electronic double temperature control

RAZE712…

in protective housing, for mounting on an immersion tube

CE

Registered under DM/066 622

Combination of two electronic temperature control 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 an immersion tube

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 immersion tube acc. EN 14597

Type summary

Type	*Order-no.*	*Thermostat A range [°C]*	*Thermostat B range [°C]*	*Immersion length*
RAZE712.000M	011-6401	-20…40	-20…40	100mm
RAZE712.001M	011-6402	-20…40	-20…40	150mm
RAZE712.002M	011-6403	-20…40	-20…40	200mm
RAZE712.003M	011-6404	-20…40	-20…40	280mm
RAZE712.020M	011-6421	30…90	30…90	100mm
RAZE712.021M	011-6422	30…90	30…90	150mm
RAZE712.022M	011-6423	30…90	30…90	200mm
RAZE712.023M	011-6424	30…90	30…90	280mm
RAZE712.040M	011-6441	80…140	80…140	100mm
RAZE712.041M	011-6442	80…140	80…140	150mm
RAZE712.042M	011-6443	80…140	80…140	200mm
RAZE712.043M	011-6444	80…140	80…140	280mm
RAZE712.060M	011-6461	130…190	130…190	100mm
RAZE712.061M	011-6462	130…190	130…190	150mm
RAZE712.062M	011-6463	130…190	130…190	200mm
RAZE712.063M	011-6464	130…190	130…190	280mm

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 VDC
	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 from 1 K to 15 K	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
	Length R of immersion tube	100, 150, 200, 280, 450 or 600 mm
	Electrical connection	Screw terminals
	Cable bushing	M20 and M16
	Weight without packaging and immersion tube	approx. 510 gr.

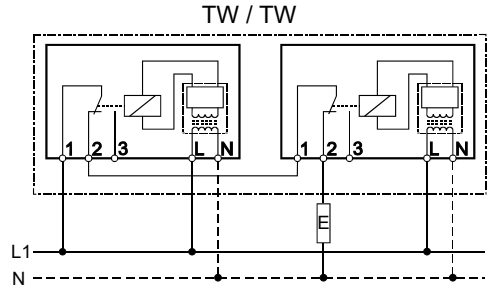
Fitting notes

See the mounting instructions inside the packaging.

The required immersion tube material depends on the installation (medium, tank material etc.) and must be specified by the user.

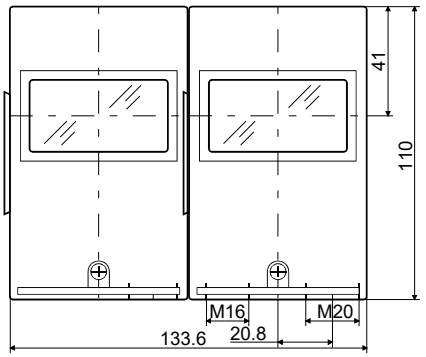
To comply with the time factor requirements acc. EN 14597, immersion tubes must be conform to drawing H 1 7111 3459 (see also data sheet "immersion tubes 1130").

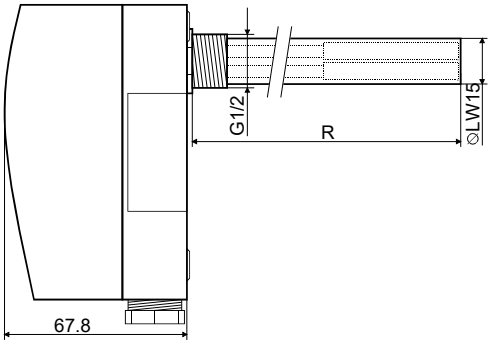
Wiring diagram/ status indicators



Supply status	1 yellow LED
Relays status contacts 1-2	1 red LED

Dimension drawing





Socket 005-1054
Cover 005-0551.3