

Not
temperature
compensated

Safety temperature monitor

RAK715...

for mounting on a protective pocket, in protective housing

Version to EN 14597

and Pressure Equipment Directive 97/23/EC

Registered under DM/066 622

Electro-mechanical safety temperature monitor acc. EN 14597, fail-safe

For the use in heat generator plants and other heating, ventilating, and air conditioning applications. The unit is mounted on a protective pocket.



Application

Features

- Fail-safe, contact 11-12 will open in case of capillary failure
- Nominal value irreversibly adjustable from higher to lower temperature
- If nominal value is reached, the limiter switches
- Reset is carried out automatically after the sensing element is cooled off by approx. $10\text{ K} \pm 7.5\text{ K}$
- Single-pole micro switch with OFF-switch
- Time factor of sensing element acc. EN 14597
- Operation: Type 2 BDEFHKL, EN 14597

Type summary

Type	Order-no.	Range [°C]	Immersion length	Max. sensing element temperature [°C]
RAK715.0010M	011-4901.10	60/50/40/30/25	100mm	110
RAK715.0011M	011-4902.10	60/50/40/30/25	150mm	110
RAK715.0012M	011-4903.10	60/50/40/30/25	200mm	110
RAK715.0013M	011-4904.10	60/50/40/30/25	280mm	110
RAK715.0014M	011-4905.10	60/50/40/30/25	450mm	110
RAK715.0015M	011-4906.10	60/50/40/30/25	600mm	110
RAK715.0020M	011-4911.10	100/90/80/70/65	100mm	140
RAK715.0021M	011-4912.10	100/90/80/70/65	150mm	140
RAK715.0022M	011-4913.10	100/90/80/70/65	200mm	140
RAK715.0023M	011-4914.10	100/90/80/70/65	280mm	140
RAK715.0024M	011-4915.10	100/90/80/70/65	450mm	140
RAK715.0025M	011-4916.10	100/90/80/70/65	600mm	140
RAK715.0030M	011-4921.10	130/120/110/100/95	100mm	160
RAK715.0031M	011-4922.10	130/120/110/100/95	150mm	160
RAK715.0032M	011-4923.10	130/120/110/100/95	200mm	160
RAK715.0033M	011-4924.10	130/120/110/100/95	280mm	160
RAK715.0034M	011-4925.10	130/120/110/100/95	450mm	160
RAK715.0035M	011-4926.10	130/120/110/100/95	600mm	160

Technical data

Switching system

Switching capacity acc. VDE 0631

- Nominal voltage range

40...250 V~

- Nominal current range I (I_M)

0.5...10(6) A

Service live at nominal load

min. 15'000 operation

Protection class

I acc. VDE 0631

Protection mode of housing

IP66 acc. EN 60529

Application range	Adjustable cut-off temperature ϑ_{off} Ambient temperature on housing Thermal switching differential Ambient temperature for storage and transport	see "Type summary" max. 70 °C (T70) 10.0 K \pm 7.5 K -25...+75 °C
Calibration	Calibration tolerance Calibrated for ambient temperature on switching head and capillary Time factor in water / in oil	(0-10) K 37 \pm 2 °C (Tu37 acc. EN 14597) <45 s / <60 s
Specification	Switching head support (basic insulation) Capillary Sensing element Diaphragm Housing socket Housing cover Immersion length R of immersion tube Electrical connection Earth connection Cable bushing Weight without packaging and immersion tube	ceramic stainless steel copper stainless steel 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 screw terminals M20 approx. 255 gr.

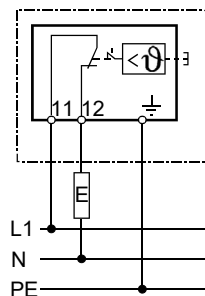
Fitting notes

See the mounting instructions inside the package.

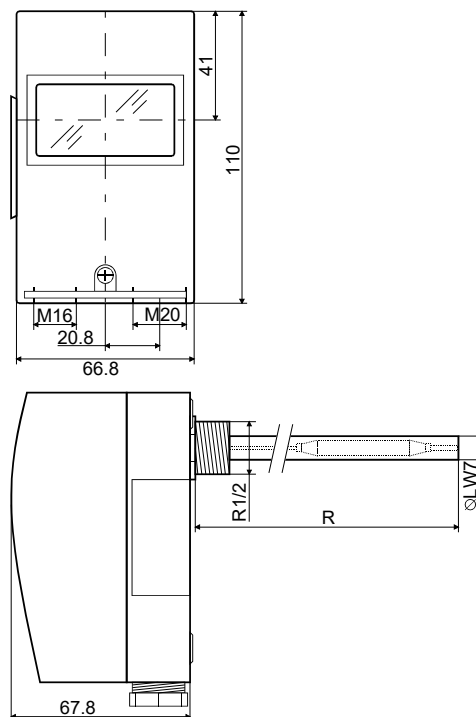
The immersion tube material depends on the installation (medium, tank material, etc.) and must be specified by the user.

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

Wiring diagram



Dimension drawing



Socle 005-1054
Cover 005-0551.3