



MICROTHERM

Thermal cut-out thermostat

Automatic or manual reset

R

25

26

35

36



Applications

- Cooking devices
- Electric grill
- Heaters and heating Elements
- Antifreeze
- Diesel preheating (automobile)

Benefits

- High current and high temperatures
- Low tolerances up to $\pm 3K$
- various attachments
- Low hysteresis up to 10K
- Up to 100,000 circuits

Description

Switches of the **R series** are extremely robust switches with universal characteristics: they can be used as temperature monitors and controllers, current-capable up to 16 A, specifically adjustable hysteresis and low tolerances up to $\pm 3\text{K}$.

The plastic housing, the floor and the fastening are tension-free. The heat is applied directly to the thermo-bimetallic snap-disc via the contact surface (bottom), and thus allows a very rapid reaction. The connections vary in dimensions and mounting angles (0 - 90°).

Types R25 and R26 are automatically resetting, whereas types R35 and R36 are manual-resetting switches.

Delivery quantities from 2,000 pcs.



Technical data

ratings		type			
		R25A	R26A	R35A	R36A
reset		automatic		manual	
contact version		normally closed			
VDE	rated current at 250V AC	10 A	16 A	16 A	16 A
	switching cycles	100,000	30,000	10,000	10,000
	max. temperature range T_A (steps in 5 K)	0°C ... 150°C	0°C ... 210°C	45°C ... 150°C	45°C ... 180°C
UL	rated current at 250V AC	16 A	10 A	10 A	10 A
	switching cycles	6,000	100,000	6,000	6,000
	max. temperature range T_A (steps in 5 K)	0°C ... 160°C	0°C ... 230°C	45°C ... 150°C	45°C ... 180°C
tolerance		$\pm 3\text{K} (< 130^\circ\text{C})$ $\pm 5\text{K} (< 210^\circ\text{C})$		$\pm 3\text{K} (45^\circ\text{C} \dots 95^\circ\text{C})$ $\pm 4\text{K} (96^\circ\text{C} \dots 150^\circ\text{C})$	
feature of automatic action		1.C		2.B	1.B
contact resistance		< 30 m Ω			
hysteresis	0°C ... 130°C 10K 131°C ... 159°C 15K 160°C ... 190°C 15K 191°C ... 230°C 15K	10K \pm 5 K 15K \pm 5 K 15K \pm 7 K 15K \pm 10 K		---	
suitable for use in protection class		I, II			
approvals	VDE	EN60730-1 / -2-9			
	UL	UL60730-1, UL60730-2-9, UL873, CAN/CSA-E60730-1, CAN/CSA-E730-2-2 / -2-9			
	CQC	GB14536.1 / GB14536.10	---	---	---

Versions

code	illustration	drawing dimension (mm)	technical description
R25A 121 B14 H131			terminals 6.3 x 0.8 mm, aluminium cap, standard bracket (loose)
R25A 121 B14 H211			terminals 6.3 x 0.8 mm, aluminium cap, standard bracket (loose)
R26A 121 B14 H131			ceramic switch, terminals 6.3 x 0.8 mm, aluminium cap, standard bracket (loose)
R25A 121 A211			terminals 6.3 x 0.8 mm, fixed, raised bracket in aluminium, fixed at ±30° resp. ±45°
R25A 321 D43			terminals 4.8 x 0.8 mm, screwed connections M4 x 5.5 mm, brass
R25A 111 B14 H131			bent terminals 6.3 x 0.8 mm, aluminium cap, standard bracket (loose)
R35A 121 B34			manual reset, terminals 6.3 x 0.8 mm, steel cup for low temperatures
R35A 321 A211			manual reset, terminals 4.8 x 0.8 mm, fixed, raised bracket in aluminium, fixed at ±30° resp. ±45°
R35A 111 B14 H131			manual reset, bent terminals 6.3 x 0.8 mm, aluminium cap, standard bracket (loose)
R36A 121 B14 H131			manual reset, ceramic housing, terminals 6.3 x 0.8 mm, aluminium cap, standard bracket (loose)

Please contact us for the combination of various executions with regard to terminals and fixations.

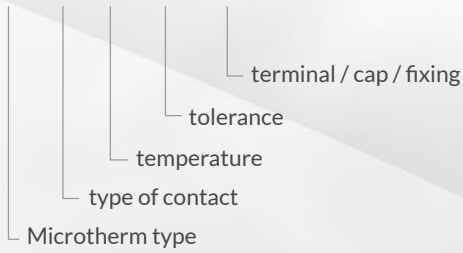


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Microtherm International Cooperation

Ordering example

R25 A 120 03 121 B14 H131



Marking

R25A type R25 normally closed (UL, CQC, VDE)

12005 response temperature (120°C),
tolerance ($\pm 5K$)

036 date of manufacture (May 2016)

or:

R25A type R25 normally closed (VDE, UL, CQC)

--123 drawing number (range 001 to 999)

036 date of manufacture (June 2016)

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