

Heater Break Alarm Module HBA-22








Supports heater current up to 100A. (30A in the previous model)



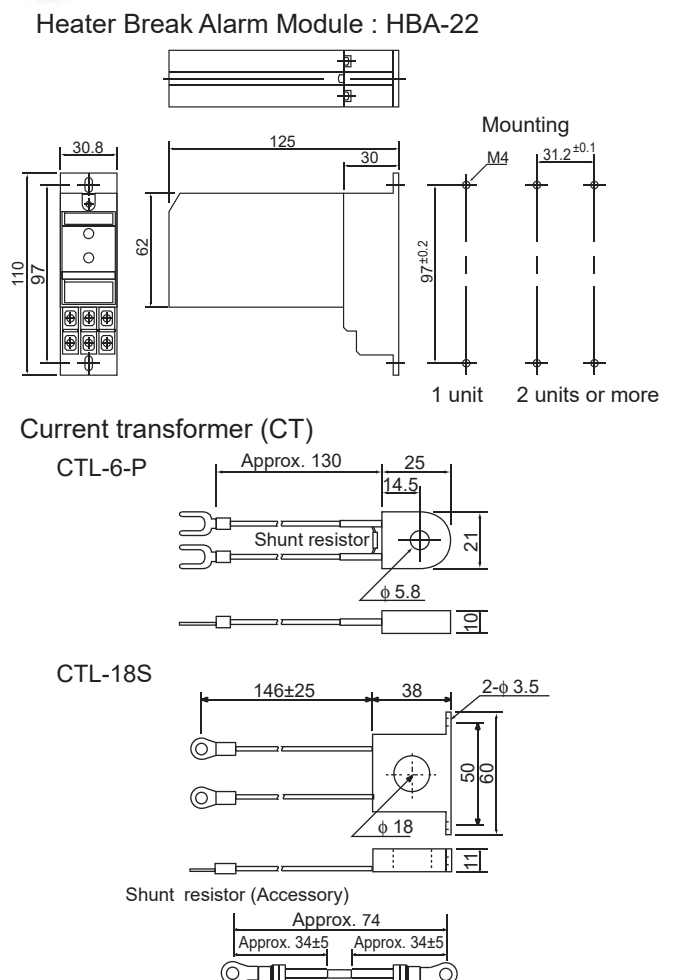
The heater break alarm is a contact output device that monitors the heater current and activates the alarm when the current falls below the set value. HBA-22 outputs via a relay or an SSR.



Products List

Heater Break Alarm Module	CT type	
Model Code HBA-22 	Max. 5A	 Model Code : CTL-6-P-5 (Terminal : Y-shaped lug, M3) None shunt resistor
	Max. 10A	 Model Code : CTL-6-P-10 (Terminal : Y-shaped lug, M3) Built-in shunt resistor
	Max. 20A	 Model Code : CTL-6-P-20 (Terminal : Y-shaped lug, M3) Built-in shunt resistor
	Max. 30A	 Model Code : CTL-6-P-30 (Terminal : Y-shaped lug, M3) Built-in shunt resistor
		 Model Code : CTL-18S-30 (Terminal : Ring lug, M3) Model Code : CTL-18S-30-C (Terminal : Open wires) A shunt resistor is included (Terminal : Ring lug, M3)
	Max. 100A	 Model Code : CTL-18S-100 (Terminal : Ring lug, M3) Model Code : CTL-18S-100-C (Terminal : Open wires) A shunt resistor is included (Terminal : Ring lug, M3)

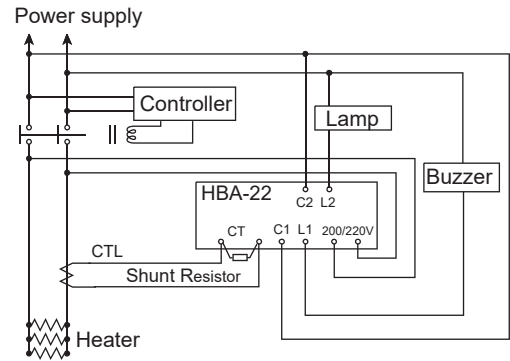
External Dimensions (Units : mm)



Specifications

Detectable load current	5A, 10A, 20A, 30A, 100A AC (depends on CT rating)
Input type	Current transformer 5A : CTL-6-P-5 10A : CTL-6-P-10 20A : CTL-6-P-20 30A : CTL-6-P-30 or CTL-18S-30 100A : CTL-18S-100
Settable range	5A : 20 to 100% of rated value of CTL-6-P 10A, 20A : 50 to 100% of rated value of CTL-6-P 30A, 100A : 50 to 100% of rated value of CTL-18S
Alarm sensitivity	Alarm is activated when the current changes by 15% or more of the rated value (full scale) of the CTL. * Changes below 15% may not activate the alarm.
Alarm output	2 points, Relay contact, 230V AC, 0.5A (Resistive Load)
Supply voltage	100/110V or 200/220V, (whichever is specified), 50/60Hz
Power consumption	Less than 1.8VA
Ambient temperature	-10 to 50°C
Ambient humidity	45 to 85%RH (Non-condensing)
Net Weight	Approx. 230g

Wiring Example



* A shunt resistor, which is included as a standard accessory, must be used with the CTL-18S. A mismatched shunt resistor may cause malfunction or failure.

A shunt resistor is not required for using the CTL-6-P.

** CTL-6-P and CTL-18S have no polarity.

Model and Suffix Code

● HBA-22

Specifications	Model and Suffix Code	
	HBA	- □
Applicable output	Relay contact, Voltage pulse for SSR	22

● Current transformer

Load Current	Model Code	Terminal	Remarks
5A	CTL-6-P-5	Y-shaped lug, M3	None shunt resistor
10A	CTL-6-P-10	Y-shaped lug, M3	Built-in shunt resistor
20A	CTL-6-P-20	Y-shaped lug, M3	Built-in shunt resistor
30A	CTL-6-P-30	Y-shaped lug, M3	Built-in shunt resistor
	CTL-18S-30	Ring lug, M3	A shunt resistor is included (Terminal : Ring lug, M3)
	CTL-18S-30-C	Open wires	
100A	CTL-18S-100	Ring lug, M3	A shunt resistor is included (Terminal : Ring lug, M3)
	CTL-18S-100-C	Open wires	

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