Digital Temperature Indicating Controller

BCS1 series



Features

- 48 x 48mm
 Temperature indicating controller
- Money saving
- Space saving
- Made in Japan

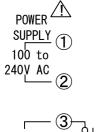
■ Model

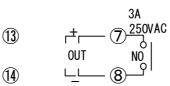
		BCS1	R	-	0	0	M00	-	0	000000000-00
Series	BCS1	BCS1								
Control output	Relay contact		R							
(OUT)	Non-contact voltage		S							
Supply voltage	100 to 240V AC	0								
Input	Multi-input	M00								
Event output	No Event output		•	•		•		•	0	
	2 Event outputs								2	

■ Rated scale

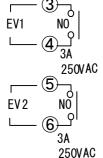
Input		Ra	Resolution	
	K	-200 to 1370°C	-320 to 2500°F	1°C (°F)
M	J	-200 to 1000°C	-320 to 1800°F	1℃ (℉)
	Pt100	-199.9 to 850.0°C	-199.9 to 999.9°F	0.1℃ (℉)

■ Terminal arrangement





(9)



 $\widehat{15}$

POWER SUPPLY: 100 to 240V AC EV1: Event 1 (A1) output (option) EV2: Event 2 (A2) output (option)

OUT : Control output
TC : Thermocouple input

RTD : Resistance temperature detector input

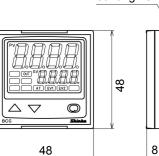


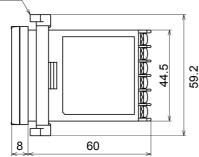


■ Standard specifications

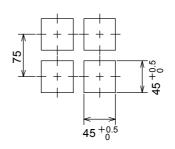
Standard spe		_					
	Thermocouple : K, J, External resistance: 100Ω or less						
Input	RTD : Pt100 3-wire system, Allowable input lead wire resistance: 10Ω or less per wire						
	Rated scale : Refer to the Rated scale						
Accuracy	Thermocouple: Within $\pm 0.3\%$ of each input span ± 1 digit, However, less than 0° C (32° F): Within $\pm 0.4\%$ of each input span ± 1 digit						
(Setting, Indication)	· ·	` ,	% of each input span ±1 digit				
	RTD : Within ±0.2% of each input span ±1digit						
	• PID (with auto-tuning function)						
	• PI action: When derivative time is set to 0.						
	• PD action (with auto-reset function): When integral time is set to 0.						
	P action (with auto-reset function): When both derivative and integral time are set to 0. ON/OFF action: When proportional band is set to 0.						
	l ' '		lucu 40°C \ (ONI/OFF action when act to 0)				
	OUT proportional band(P): 0 to 1000°C or 2000°F (Default value: 10°C) (ON/OFF action when set to 0)						
Control action	With decimal point: 0.0 to 999.9°C or 0.0 to 999.9°F (ON/OFF action when set to 0.0) Integral time(I) : 0 to1000sec (OFF when set to 0) (Default value: 200sec)						
	Derivative time(D) : 0 to 300sec (OFF when set to 0) (Default value: 50sec)						
	OUT proportional cycle : 1 to 120sec (Default value: Relay contact: 30sec, Non-contact voltage: 3sec)						
	ARW : 0 to 100% (Default value: 50%)						
	ON/OFF hysteresis : 0.1 to 100.0°C (°F) (Default value: 1.0°C)						
	Output high limit, low limit: 0 to 100% (Not available for ON/OFF action)						
	(Default value: Output low limit: 0%, Output high limit: 100%)						
	Relay contact: 1a Control capacity: 3A 250V AC (Resistive load), 1A 250V AC (Inductive load $\cos \phi = 0.4$)						
Control output	Electric life: 100,000 cycles						
	Non-contact voltage (for SSR drive): 10 $^{+3}_{0}$ V DC, Max. 20mA DC						
Input sampling	0.5sec	Insulation	10MΩ or more, at 500V DC				
period	resistance		· ·				
Supply voltage	100 to 240V AC, 50/60Hz	Dielectric strength	1.5kV AC for 1 minute Between input terminal and power terminal				
	100 to 240 v AC, 50/00/12	Dielectric strength	Between output terminal and power terminal				
Allowable voltage	85 to 264V AC	Case, Front panel	Flame-resistant resin (Color: black), Membrane sheet				
Fluctuation range Power consumption	Approx. 7VA	Mounting	Flush				
	· ' ·		48X48X68mm (WxHxD)				
Ambient temperature	0 to 50°C	External dimensions	(Depth of control panel interior: 60mm)				
Ambient humidity	35 to 85%RH (Non-condensing)	Weight	Approx. 120g				
Attached functions	Sensor correction, Set value lock, Power failure countermeasure, Self diagnosis, Automatic cold junction temperature compensation, Burnout (Overscale), Indication range, Control range, Warm-up indication						
Option	2 Event outputs (A1, A2)						
Accessories included	Mounting frame 1 piece, Instruction manual 1 copy						
Accessories sold separately	Terminal cover						

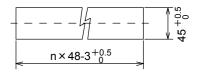
External dimensions (Scale: mm) Mounting frame





■ Panel cutout (Scale: mm)





Lateral close mounting n: Number of units mounted



- To ensure safe and correct use, thoroughly read and understand the manual before using this instrument.
- This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify
 correct usage after consulting purpose of use with our agency or main office.
 (Never use this instrument for medical purposes with which human lives are involved.)
- External protection devices such as protection equipment against excessive temperature rise, etc. must be installed, as malfunction of this product could result in serious damage to the system or injury to personnel. Also proper periodic maintenance is required.
 This instrument must be used under the conditions and environment described in the manual. Shinko Technos Co..
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To avoid this instrument from being used as a component in, or as being utilized in the manufacture of weapons of mass destruction (i.e. military applications, military equipment, etc.), please investigate the end users and the final use of this instrument. In the case of resale, ensure that this instrument is not illegally exported.

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- · If you have any inquiries, please consult us or our agency.

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