Wireless power supply by

Remote sensor system 2 signals of thermocouple transmission Ring shape

The ring shape that can set up to an axis 2125 couple transmissio It is suitable for the temperature management of a fuser, agitator and an equipment that spins. Two points of thermo-Possible to install on the axis! couples is OK! Type K : 0 ~ 1000°C $0 \sim 1000^{\circ}$ C Tvpe J: 0~300°C Transmit the temperature during the spin as well.



Because it is wireless, there is no problem in the blurring at the time of the turn!

The turning equipment including a stirrer and the fuser have a big centrifugal force and may break a collector ring or a connector by the blurring at the time of the turn.Because it wirelessly transmits, there is no problem of the blurred in remote system. Of course, the thermometry is possible while turning and can also be continuously rotating to the same direction.

Advantage of ring shape

The temperature signal of the thermocouple transmits while spinning!

- \bigcirc Suitable for the substitution of the slip ring
- \bigcirc Because there is not a slide part, high-speed movement is possible!

Communications distance 15mm, axis gap +-15mm^{*} Two different kinds, inside diameter ϕ 50 and ϕ 100! Please advice if it doesn't suit correctly.

Construction of the system



The output sensor connects an input apparatus to a power supply and connects a temperature sensor to the transmission department. A transmitter is driven by wireless feeding when facing, and temperature signal of two points of thermocouples transmits to the output sensor. The output part signals temperature a current signal (4)...I output it in 20mA).

Inside diameter ϕ 50 types



Operating distance

Operating distance

The difference between output part and in the external form transmitter is presence and a cable of the LED. The other dimensions levels are the same.

Inside diameter ϕ 100 types



The difference between output part and in the external form transmitter is presence and a cable of the LED. The other dimensions levels are the same.

Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Type code	Α	В	С	
RS02T-R01-K1000、RS02T-R01-K300、RS02T-R01-J300 RS02E-R01E-PU	100	35	300	
RS02T-R03-K300 RS02E-R01E-PU	200	35	400	(mm)

Output sensor						
Type code	RS02E-R01E-PU-02					
Supply voltage	24V DC \pm 5% (incl. ripple)					
Current consumption	\leq 150mA					
LED (indication)	InZone (data valid)					
Output	420mA x 2 signals					
Load current	$\leq 400 \Omega$					
Resolution	0.04% Full-scale range					
Response delay	≤ 0.5 sec.					
Cable	PUR / φ 5 , 4x0.25mm ²					
Transmitter						
Type code Thermocouple	RS02T-R01-K1000 RS02T-R01-K300 F	RS02T-R01-J300				
	RS02T-R01-K1000 RS02T-R01-K300 F 2 signals	RS02T-R01-J300				
code		RS02T-R01-J300				
No. of Input signals	2 signals	RS02T-R01-J300				
Code Inermocouple No. of Input signals Operating distance	2 signals 08mm ± 8mm	RS02T-R01-J300				
Code Inermocouple No. of Input signals Operating distance Center offset Center offset	2 signals 08mm ± 8mm JIS Thermocouple K J					
Code Inermocouple No. of Input signals Operating distance Center offset Applicable sensor	2 signals 08mm ± 8mm JIS Thermocouple K J	JIS Thermocouple J				
Code Inermocouple No. of Input signals Operating distance Center offset Applicable sensor Measuring range Measuring range	2 signals 08mm ± 8mm JIS Thermocouple K J 01000°C 0300°C C	IIS Thermocouple J 0300°C				
Code Inermocouple No. of Input signals Operating distance Center offset Applicable sensor Measuring range Compensated cold junction	2 signals 08mm ± 8mm JIS Thermocouple K J 01000°C 0300°C C ≤± 0.5°C Compensating lead wire(JIS) 0.9mm x 2 All heat-	IIS Thermocouple J 0300°C				
Code Inermocouple No. of Input signals Operating distance Center offset Applicable sensor Measuring range Compensated cold junction	2 signals 08mm ± 8mm JIS Thermocouple K J 01000°C 0300°C C ≤± 0.5°C Compensating lead wire(JIS) 0.9mm x 2 All heat- Common specifications	IIS Thermocouple J 0300°C				

Operating temperature	0+50°C
Remark	This product is the CE non-acquisition

	Output sensor				
Type code	RS02E-R03E-PU-02				
Supply voltage	24V DC \pm 5% (incl. ripple)				
Current consumption	≦ 150mA				
LED (indication)	InZone (data valid)				
Output	420mA x 2 signals				
Load current	≦ 400 Ω				
Resolution	0.04% Full-scale range				
Response delay	≦ 0.5 sec.				
Cable	PUR / ϕ 5 , 4x0.25mm ²				
Transmitter					
Type code Thermocouple	RS02T-R03-K300				
No. of Input signals	2 signals				
Operating distance	0 9mm (with metal shaft) 015mm	n (No metal shaft)			
Center offset	0 8mm (with metal shaft) 015mm	n (No metal shaft)			
Applicable sensor	JIS Thermocouple K				
Measuring range	0300°C				
Compensated cold junction	≦± 0.5°C				
Cable	Compensating lead wire(JIS) 0.9mm x 2 All heat-resistant vinyl (90°C)				
Common specifications					
Operating temperature					
Remark	This product is the CE non-acquisition				

Surround Metal

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Wireless Power Supply by B&PLUS K.K.

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* Contents is subject to change without notice.

BN1520Ce 2017.03