## Remote Sensor System

8 signal transmission type Temperature rated ( +80 deg.C. )

Transmitter : RS08TA-018D-PU-\_ \_

RS08TA-003D-PU-\_\_

Output Sensor: RS08EA-018N/P-PU-

RS08EA-030N/P-PU-

#### Attention for Installation

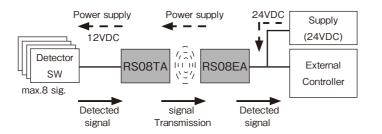
(Read this section thoroughly before installation.)

Before using the Remote Sensor, read this manual carefully. During installation and operation, pay close attention to the safety aspect.

- ◆ Ensure the power is switched off during installation or maintenance operations.
- ◆ Use a regulated power supply, e.g. switch-model type. Simpler power supplies, such as a full-wave rectification type, will cause the permissible ripple rating to be exceed and may cause malfunction.
- ◆ Ensure correct connections by reference to the wiring diagram.
- ◆ To avoid malfunction caused by induction noise, cable should be kept apart from motor or other power cable.

#### Construction of the system

[Detector] [Transmitter] [Output Sensor]



#### (Function of each component)

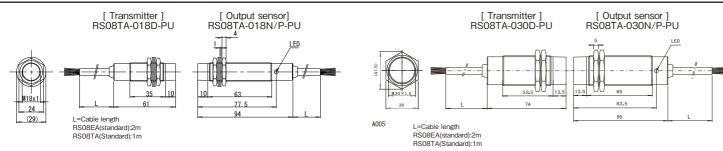
: Connects detector switches (max.8) and transmits the Detector

detected signals to Transmitter.

Transmitter : Provides power for Detector, also passes detected signals from Detector to Output Sensor.

Output Sensor: Puts out detected signal to external controller, also sends power for operating of Detector and Transmitter.

#### Dimension



#### Specification of Remote sensor system

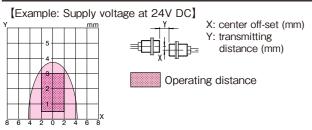
Type code	Transmitter		RS08TA-018D-PU		
	Output NPN		RS08EA-018N-PU		
	sensor	PNP	RS08EA-018P-PU		
Drive Voltage			12V DC ± 1.5V		
Drive Current			5mA (1 signal)		
Transmission distance		Transmission distance	Center offset		
and Center o	offset		0.53mm	≦± 2.5mm	
Only Output	Supply voltage		24V DC ± 10%(incl. ripple)		
sensor	Current consumption		≦ 150mA		
Applicable	Supply voltage		12V DC		
Detector switch	Load current		Max. 5mA		
	Residual voltage		min. 3.5V		
	Leakage of	current	Max. 1mA		

	,				
Type code	Transmitter		RS08TA-030D-PU		
	Output NPN		RS08EA-030N-PU		
	sensor	ensor PNP RS08EA-030P-PU			
Drive Voltage			12V DC ± 1.5V		
Drive Current			5mA (1 signal)		
Transmission distance		Transmission distance	Center offset		
and Center o	and Center offset		27mm	≦± 3mm	
Only Output	Supply voltage		24V DC ± 10%(incl. ripple)		
sensor	Current consumption		≦ 150mA		
Applicable	Supply voltage		12V DC		
Detector switch	Load current		Max. 5mA		
	Residual voltage		min. 3.5V		
	Leakage	current	Max. 1mA		

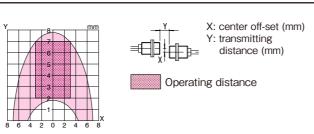
- 🗆 Please note that the signal may become unstable (false signal or chattering) when the transmission distance and the center offset are outside the specification range.
- ☐ The inzone signal is a preliminary signal for confirming that the output signal is established within the specification range. Please note that it does not guarantee signals output outside the specification range

## Transmitting area diagram

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◆ The drive current is dependent on the transmission distance between Transmitter and Output Sensor the degree of off-set between them-refer to Transmitting area diagram.



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#### Wiring

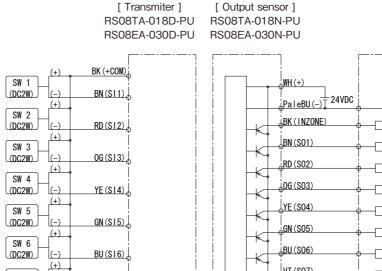
# ■ NPN type

SW 7

(DC2W)

SW 8 (DC2W) (-)

(+)\_\_

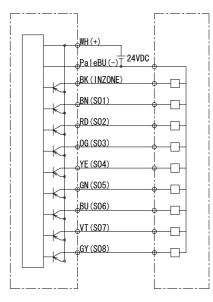


VT (S07)

GY (SO8)

## ■ PNP type

[ Output sensor ] RS08TA-018P-PU RS08EA-030P-PU

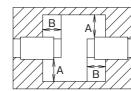


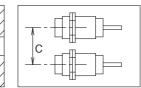
#### Influence of surrounding metal and Mutual interference

VT (S17)

GY (S18)

In order to avoid mutual interference between parallel-mounted sensors or to avoid influence of surrounding metal, when sensor is mouted in metal ,keep the minimum space as described below.

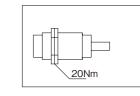


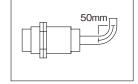


Type code	A(mm)	B(mm)	C(mm)
RS08TA-018D-PU RS08EA-018N/P-PU	18	18	110
RS08TA-030D-PU RS08EA-030N/P-PU	30	20	200

# Bending radius of cable

The minimum bending radius for thesensors are 50mm.





\* Never pull the cable strongly in installing.

## <NOTES>

This product is in conformity with EMC directive and indicated CE marking. Appropriate measure should be taken to avoid excessive surge when the cable length between RS08EA and a power unit is longer than 10m because it is not taken procedure to surge.



Don't touch RS08\_A directly atter having used it at high temperature for many hours, or you will burn yourself. Maintenance work should not be carried out before RS08\_A cools down.