

# **B PLUS Remote System User Guide**

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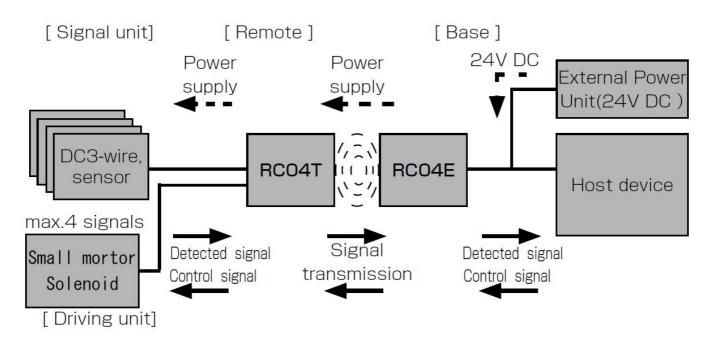
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**B PLUS Remote System** 



## **System configuration**



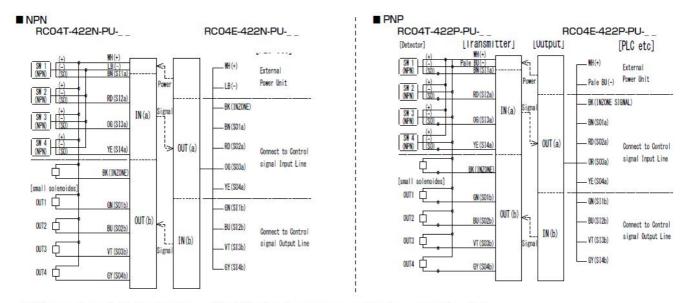
### Function of each component

Driving unit: Small motors, solenoid valves can be connected.

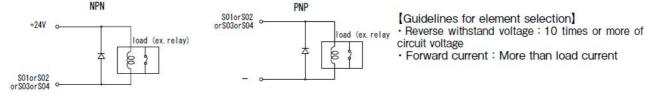
Signal unit: Connects signal units such as detector switches or controllers.

Remote: A unit which is installed on the moving side and has the following functions: to supply power for connected actuators, to transmit input signal from "detectors" to "base" and to output the transmitted signals from "base" to "detectors"

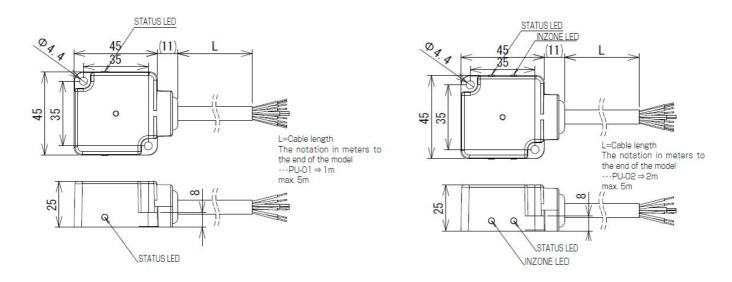
## Wiring diagram



• When using an inductive load exceeding 50 mA, take measures against surges with a diode.



#### **Dimension**



## Specification of the System

Type NPN PNP	RC04T-422N-PU RC04T-422P-PU
Applicable sensor	DC 3-wire sensor
Drive voltage	24V ± 1.5V DC

Drive current		≤ 1A (include output load current)
INPUT	Signals	4 signals
	Current load	≤ 7mA/1output
OUTPU T	Signals	4 signals + 1 INZONE
Current load		≤ 50mA/1output
Frequency		300Hz
Operating distance		03mm
Center offset		Transmission distance is within 2 mm ± 4 mm
		Transmission distance 2 mm 3 mm ± 1.5mm
Operating temperature		0+50°C
Protection class		IP67
Protection circuit		output short circuit protection, Output surge suppression
Cable		PUR $\phi$ 7.7 ( 2×0.5mm <sup>2</sup> + 9×0.18mm <sup>2</sup> )
Material		PBT
Weight		Body 110g +Cable 75g/m

Type PNP	NPN	RC04E-422N-PU RC04E-422P-PU
Supply vol	tage	24 V DC ± 5 (include ripple)
Current	active on static	Max 1.4 A (with 1A drive)  Max 0.2 A (when not facing)
INPUT	Signals	4 signals
	Current load	≤ 7mA/1output
OUTPUT	Signals	4 signals + 1 INZONE
Current load		≤ 50mA/1output
Frequency		300Hz
Start-up time 1		≦ 0.5s
LED indication		Status (Green), Signal (Orange)

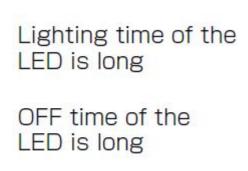
Operating temperature	0+50°C
Protection class	IP67
Protection circuit	output short circuit protection, Output surge suppression, Converse protection, Overtemperature protection, overheationg protection when facing metal 2 Over current protection
Cable	PUR φ 7.7( 2×0.5mm <sup>2</sup> + 9×0.18mm <sup>2</sup> )
Material	PBT
Weight	Body 110g+ Cable 75g

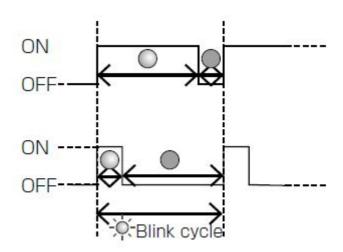
### Applicable sensor

Supply voltage	24V DC
Residual voltage	≦ 6.5V
Load current	_

- 1. The time from when the base and remote units are energized in the transmittable area wireless signal transmission is possible.
- 2. Metal protection is a function of metal heat prevention when metal is opposed. Since it is not guaranteed to operate with all metals, please do not deliberately confront the metal against the communication surface.

### **LED** indication

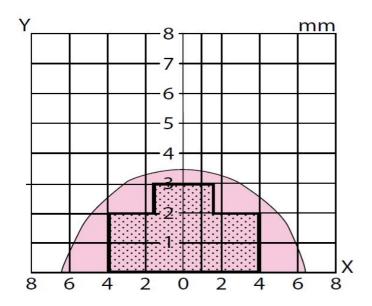


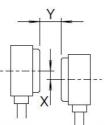


#### Signal LED (Orange) Base part

The in zone LED lights up when the transmission part and the output part are in a confronting state and communication is possible

Typical Transmitting Diagram (Supply voltage at 24V /non-flush mount)





X:Center offset(mm)

Y:Operating distance(mm)



Operating area



Drive current ≤ 1A

#### **Documents / Resources**



B PLUS Remote System [pdf] User Guide B PLUS, Remote System, T319701e

Manuals+,