

| |
|---|
| Remote power supply system 30W Power Supply only type / Charging type |
| Base part : RVE-210-2-PU-__ Remote part : RVT-210-102-PU-__ (Power Supply only type) RVT-210-502-PU-__ (Charging type, Lead battery exclusive use) |

Attention for Installation

(Read this section thoroughly before installation.)

Before using the Remote Sensor, read this manual carefully.

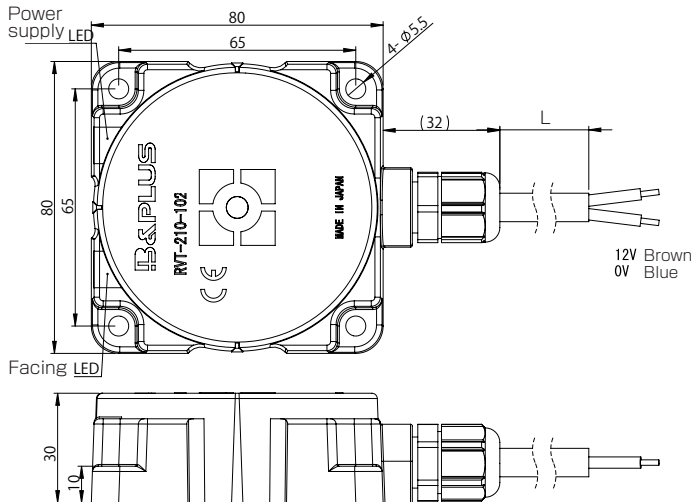
During installation and operation, pay close attention to the safety aspect.

- ◆ 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.
- ◆ When the resin (ABS or ABS + PBT) is used to the case or the transmission surface, please be sure to avoid organic solvent or liquid containing them to splash over.
- ◆ Please install cable end "wiring part" in so that there is no water and cutting fluid.(Water is transmitted to the internal from the cable core, there is a possibility of causing a problem such as short circuit or corrosion.)
- ◆ Please do not face the output sensor to a metal at all times to avoid metal overheating or damage of the components.

Dimension

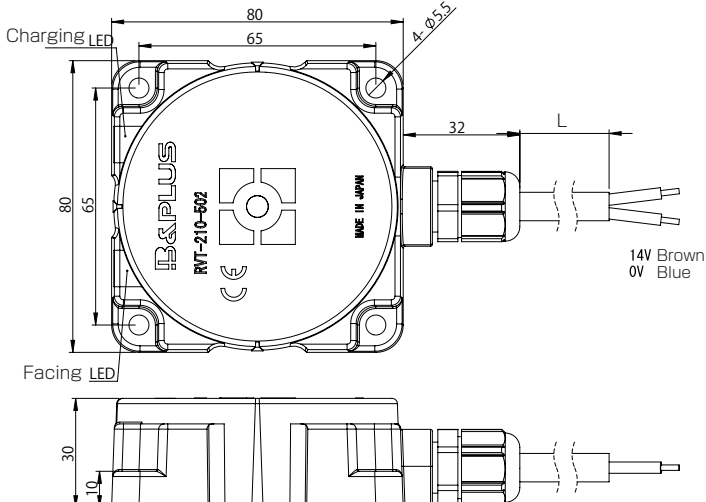
Remote part : Power Supply only type

RVT-210-102-PU-__



Remote part : Charging type (Lead battery exclusive use)

RVT-210-502-PU-__



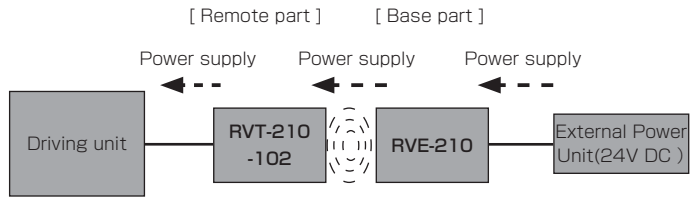
Specification of the System

| | |
|-----------------------|---|
| Type code | RVT-210-102-PU-__ |
| Operating distance | 4...10mm |
| Center off-set | ± 5mm |
| Drive voltage | 12V ± 5% |
| Drive current | 2.5A |
| LED | It represents the state of the power supply and facing in the LED |
| Operating temperature | 0...+50°C |
| Protection class | IP67 |
| Cable | PUR φ 7.8 / 2x1.5 |
| Material | PTB |
| Weight | 280 g+82g/m(cable) |

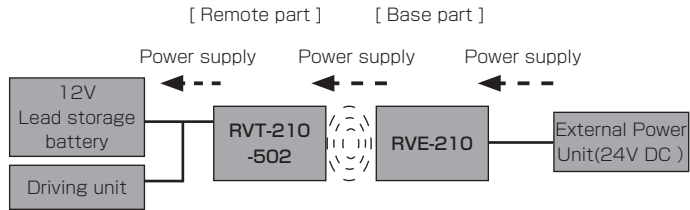
- ◆ Please note that the signal may become unstable (false signal or chattering) when the transmission distance and the center offset are outside the specification range.
- ◆ The inzone signal is a preliminary signal for confirming that the output signal is established within the specification range.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

System configuration

Power Supply only type



Charging type

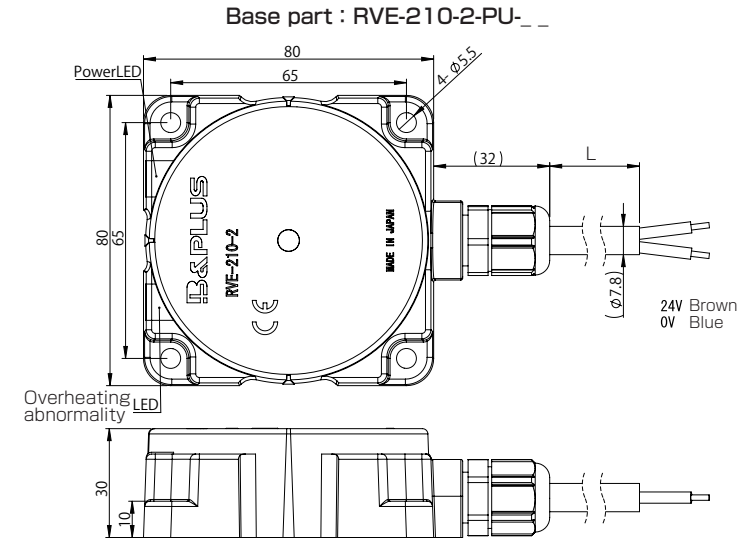


【Function of each component】

Remote part : It will supply power to the drive unit or lead batteries.

Base part : It supplies a movement power supply necessary for the remote part.

Dimension



Specification of the System

| | | |
|-----------------------|---|---|
| Type code | RVE-210-2-PU-__ | L=Cable length The notation in meters to the end of the model ...PU-01 ⇒ 1m |
| Supply voltage | 24V DC ± 10%(incl.ripple) | |
| Current consumption | ≤ 2A | |
| LED | It shows the power supply and overheating in the LED lighting | |
| Operating temperature | 0...+50°C | |
| Protection class | IP67 | |
| Cable | PUR φ 7.8 / 2x1.5 | |
| Material | PTB | |
| Weight | 280 g+82g/m(cable) | |

A base part and a metal, Please do not face at all times.Heating of the metal, or, there is a possibility of damage to the internal elements.

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.

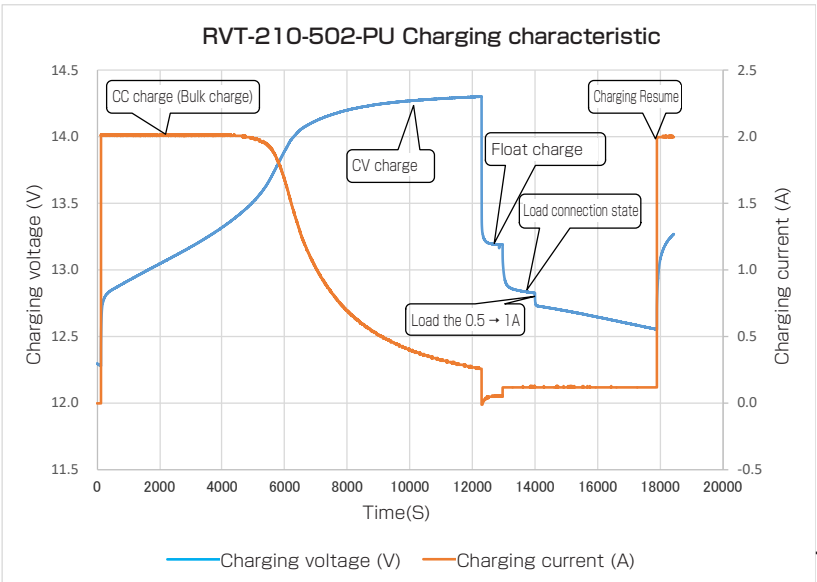
Tightening torque ⇒ 0.63N·m

| | | | | |
|--------------------------------------|----|----|----|------|
| Type code | A* | B | C | D |
| RVE-210-2-PU-__ | 50 | 30 | 30 | 300 |
| RVT-210-102-PU-__, RVT-210-502-PU-__ | | | | (mm) |

LED indication

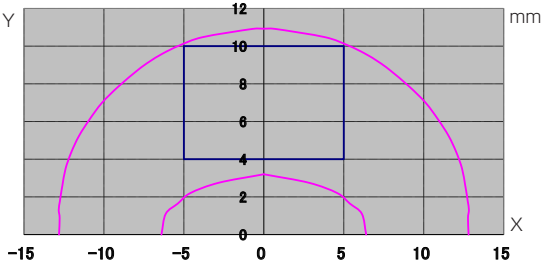
| RVE-210-2-PU-__ | | | RVT-210-102-PU-__ | | | RVT-210-502-PU-__ | | |
|-----------------------------|---------------------------------------|----------------------|-------------------|---------------------------|----------------------|-------------------|---------------------------|----------------------|
| LED | Status | Coloer | LED | Status | Coloer | LED | Status | Coloer |
| Power LED | During power supply | Lighting up (green) | Power supply LED | When you are Power supply | Lighting up (yellow) | Charging LED | When it is charging | Lighting up (yellow) |
| Overheating abnormality LED | When the internal element overheating | Lighting up (yellow) | Facing LED | When you are facing | Lighting up (green) | Facing LED | When you are Power supply | Lighting up (green) |

Charging Characteristics

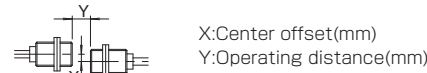


Typical Transmitting Diagram (Supply voltage at 24V / non-flush mount)

RVE-210-2-PU-__ / RVT-210-102-PU-__, RVT-210-502-PU-__

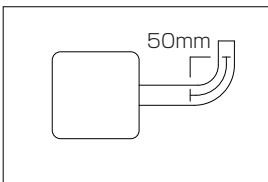


| | | |
|--------------------|---------------|----------------------|
| Operating distance | Center offset | Drive current |
| 4...10mm | ± 5mm | ≤ 2.5A (RVT-210-102) |
| 4...10mm | ± 5mm | ≤ 2.0A (RVT-210-502) |



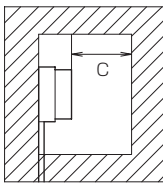
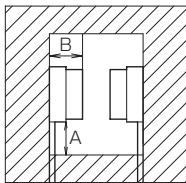
Bending radius of Cable

The minimum bending radius for thesesensors are 50mm.

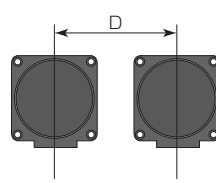


* Never pull the cable strongin installing

Surrounding metal



Parallel installation



PE12V12 (manufactured by GS Yuasa) after a 50% discharge, evaluate the charging characteristics of a combination of PVE-210-2-PU / RVT-210-502-PU. RVT-210-502-PU operation at 4 Step 3 stage lead battery profile.

Notes

- In the over-discharge state (about 10V or less battery voltage), to limit the charging current to about 130mA. Usually return to the charging cycle when it exceeds approximately 10V.
- Voltage restart the charge from the float charge is about 12.6V.