

## Wiring color

| RS12T-422-PU-          |         |                 |         |
|------------------------|---------|-----------------|---------|
| Power supply +12V      | WH      |                 |         |
| Power supply 0V        | Pale BU |                 |         |
| Polarity switching POL | BK      |                 |         |
| Input 1 (SI1)          | BN      | Input 7 (SI7)   | VT      |
| Input 2 (SI2)          | RD      | Input 8 (SI8)   | GY      |
| Input 3 (SI3)          | OG      | Input 9 (SI9)   | BN * ■■ |
| Input 4 (SI4)          | YE      | Input 10 (SI10) | RD * ■■ |
| Input 5 (SI5)          | GN      | Input 11 (SI11) | OG * ■■ |
| Input 6 (SI6)          | BU      | Input 12 (SI12) | YE * ■■ |

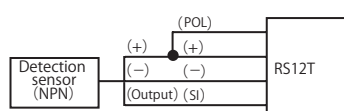
| RS12E-422N/P-PU-  |         |                 |         |
|-------------------|---------|-----------------|---------|
| Power supply +24V | WH      |                 |         |
| Power supply 0V   | Pale BU |                 |         |
| Inzone Iz         | BK      |                 |         |
| Input 1 (SO1)     | BN      | Input 7 (SO7)   | VT      |
| Input 2 (SO2)     | RD      | Input 8 (SO8)   | GY      |
| Input 3 (SO3)     | OG      | Input 9 (SO9)   | BN * ■■ |
| Input 4 (SO4)     | YE      | Input 10 (SO10) | RD * ■■ |
| Input 5 (SO5)     | GN      | Input 11 (SO11) | OG * ■■ |
| Input 6 (SO6)     | BU      | Input 12 (SO12) | YE * ■■ |

Polarity switching POL is wiring for switching the polarity (NPN / PNP) of the sensor connected to the transmission section. Check the wiring diagram and wire according to the sensor to be connected. If not wired, no signal will be detected.

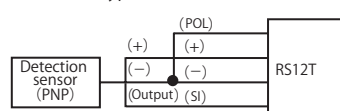
At the time of shipment from the factory, the unused core wire of the cable is cut. If the cable is shortened due to wiring reasons, the unused core wire will be exposed, so be careful not to short-circuit it.

The unused lines are GN\*, BU\*, and VT\* (\* is the line with ■■ printed on the core wire of each color)

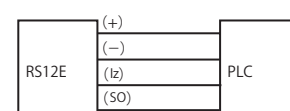
## Wiring diagram 3-wire NPN type detection sensor connection



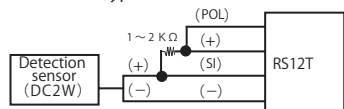
## 3-wire PNP type detection sensor connection



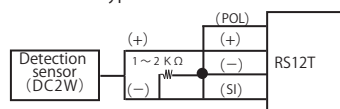
## Connection to external PLC



## 2-wire NPN type detection sensor connection



## 2-wire PNP type detection sensor connection

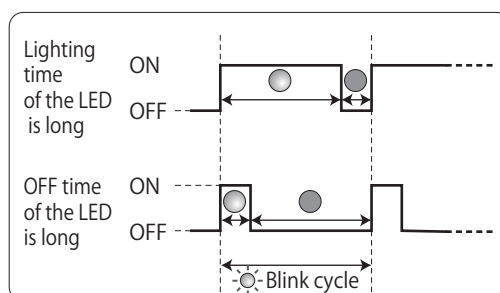


When wiring the power supply and signal lines, carefully check the wiring diagram and wire correctly. When connecting a DC 2-wire sensor, wire a resistor of about 1 to 2 KΩ.

## LED indication

### Status LED (Green)

| LED   | Blinking             | Pattern                              | Meaning                           |
|-------|----------------------|--------------------------------------|-----------------------------------|
| On    | —                    | —                                    | The power supply is supplied.     |
| Off   | —                    | —                                    | The power supply is not supplied. |
| Blink | Slow (1.5 sec.)      | Off time of the LED is long          | Anomalous temperature.            |
| Blink | Slow (1.5 sec.)      | Lighting time of the LED is long     | Oscillation circuit overcurrent.  |
| Blink | Mid speed (0.6 sec.) | Off time of the LED is long          | Supply voltage is high.           |
| Blink | Mid speed (0.6 sec.) | Lighting time of the LED is long     | Supply voltage is low.            |
| Blink | High (0.2 sec.)      | The LED flashes at the same interval | Short circuit protection.         |



### Inzone LED (Orange)

The master plate and tool plate are opposed, Inzone LED is lit when you can communicate. When the output signal from each sensor and flash accordingly.

| Output | 1st frame         | Signal | 2nd frame         | 3rd frame         |
|--------|-------------------|--------|-------------------|-------------------|
| ON     | Blinking 0.6 sec. | 1      | Blinking 0.3 sec. | Blinking 0.3 sec. |
|        |                   | 2      |                   | ON 0.3 sec.       |
|        |                   | 3      |                   | Blinking 0.3 sec. |
|        |                   | 4      |                   | ON 0.3 sec.       |
| OFF    | Blinking 0.3 sec. | 5      | Blinking 0.8 sec. | Blinking 0.3 sec. |
|        |                   | 6      |                   | ON 0.3 sec.       |
|        |                   | 7      |                   | Blinking 0.3 sec. |
|        |                   | 8      |                   | ON 0.3 sec.       |
|        |                   | 9      |                   | Blinking 0.3 sec. |
|        |                   | 10     |                   | ON 0.3 sec.       |
|        |                   | 11     |                   | Blinking 0.3 sec. |
|        |                   | 12     |                   | ON 0.3 sec.       |

