







Detection head parameter

Type	Small size and adjustable	Small side view and adjustable	Long detection distance		Small spot	Regional beam point, reflection type
Model	V5EB-C10	V5EB-C11	V5EB-C40	V5EB-C41	V5EB-C42	V5EB-C12
Appearance reference only						
Detection distance	10 to 30mm	3 to 15mm	70±20mm	16±4mm	60±10mm	5 to 20mm
Min. light point diameter	diameter 0.9 to 3.5mm	diameter 0.9 to 1.5mm	diameter 6mm	diameter 1mm	diameter 2mm	—
Min. bending diameter	R25mm		R15mm			R25mm
Protection grade	IP40		IP67			—
Ambient temperature	-40 to +70°C, no freezing					
relative humidity	35 to 85%, No condensation					
Fiber length	2m(Free cutting)	1m	2m(Free cutting)			
Case material	Lens shell: aluminum, fiber shell: stainless steel			Polycarbonate		Polysulfone, fiber: plastic (polyethylene sheathing)
Weight	Approx. 10g	Approx. 15g	Approx.. 30g			Approx. 23g

Module installation

\*For details, refer to page 3.

Detection mode

Detection mode	Detection object
mode C	Detect objects based on color components (red, green, blue).
mode C+I	The object is detected according to the color composition (red, green, blue) and light intensity (the amount of light received).
Superl mode	According to the intensity of light (the amount of light received)

\*V5EB-C1S no this function.

Default mode setting (initialization)

**Restore to the default setting**

1. press the MODE button at the same time, press the SET button 5 times

- Display screen show "rSt/no"

2. Press UP button

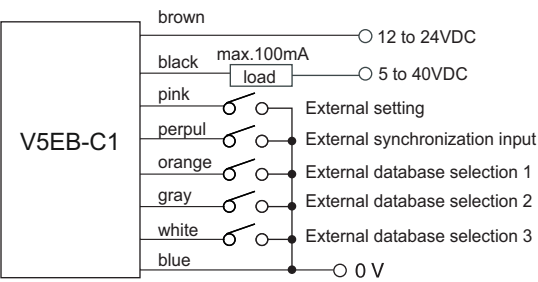
- Display screen show "rSt/YES"

3. Press MODE button.

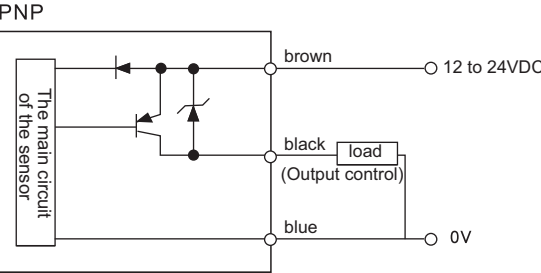
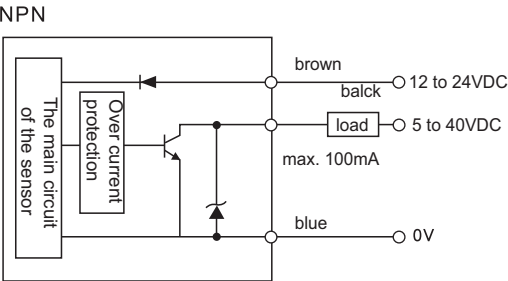
- Sensor back to default state
- If you want to undo the reset operation, please select "no" in the second step and press the MODE button.

Function(Checking function)	Mode C
Tuning mode	Single point tuning
Power mode(reaction time)	FINE
Output mode	no(L-on)
Timer mode	OFF (timer value 20ms)

Input / output wiring diagram

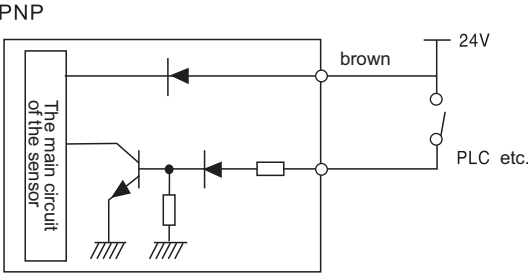
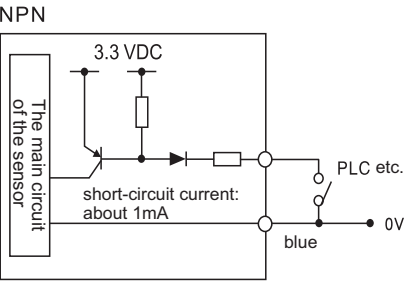


Output circuit



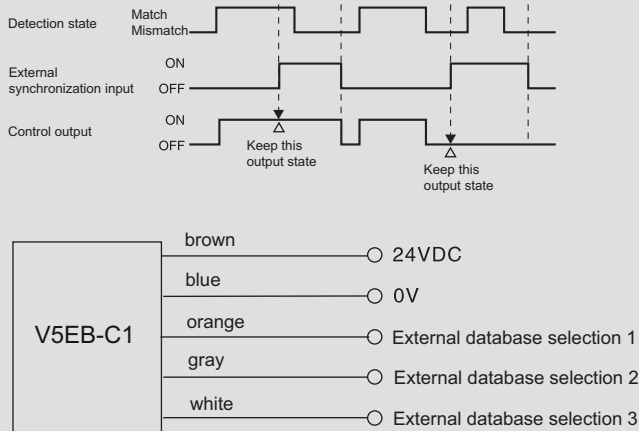
External input

V5EB-C1S does not have this function



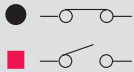
External synchronization function

When the external synchronization input cable (purple) receives a signal (connected to 0V), the control output keeps the state at that time.



Using external input to select record color (database)

- Use external input to set sensitivity (external calibration function).
- External database cable allows to select 1-8 kinds of record colors.



Cable color Database	orange	gray	white
1	■	■	■
2	●	■	■
3	■	●	■
4	●	●	■
5	■	■	●
6	●	■	●
7	■	●	●
8	●	●	●