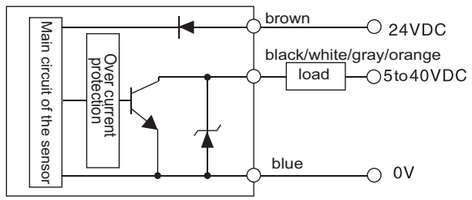
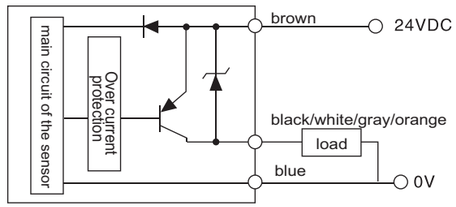
■ Input circuit diagram

V5EB-C21N



V5EB-C21P

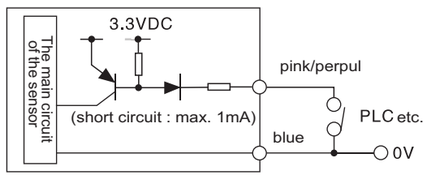


■ Output circuit diagram

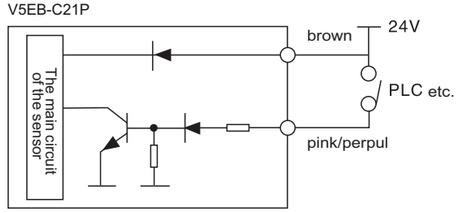
External adjustment

External database selection external displacement (perpul)

V5EB-C21N



V5EB-C21P

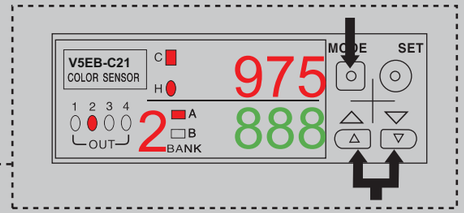


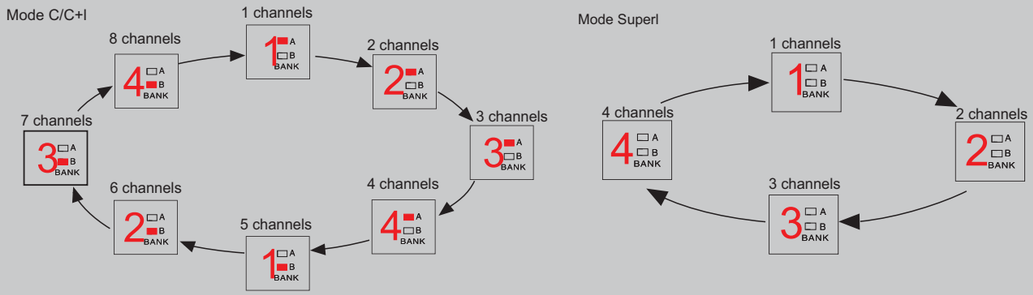
Channel setting function

According to the detection mode, sensitivity can be set for each of the following number of channels.

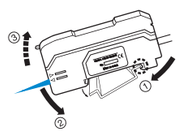
- C/C+I mode：8 channels (4 channels X2 database)
- SuperI mode：4 channels (no database)

The steps to select the display channel are as follows:
Press the MODE button while pressing the UP or DOWN button.



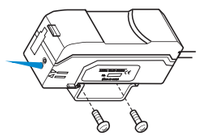


■ Module installation



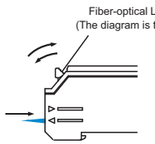
·DIN Track installation

Aligning the slot at the bottom of the device with the DIN track, as shown in Figure 1.
Push the device to the direction of arrow 1 and press down in the direction of arrow 2.
If to remove the sensor, push the device forward to the arrow 1 meanwhile raise the device to the arrow 3 direction.



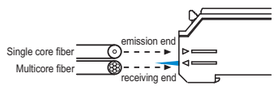
·Mounting to the bracket

Install the amplifier module with the provided mounting rack as shown in the diagram.



·Insert the connector and fiber optic A

Let the fiber-optical lock to the horizontal position,insert the fiber optical.
Dial the stick to the vertical position,
At this point the fiber has been tightened,
Remove the optical fiber, place the lock lever on the level (unlock) and remove it.



·Insert the connector and fiber optic B

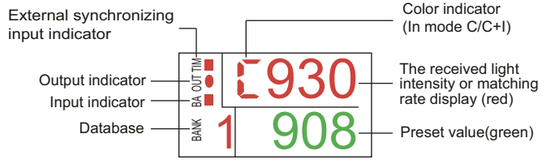
To connect the coaxial reflective fiber unit to the amplifier, please connect the single core optical fiber to the emission end, and the multi-core optical fiber is connected to the receiving end.

RGB color sensor V5EB-C1 series

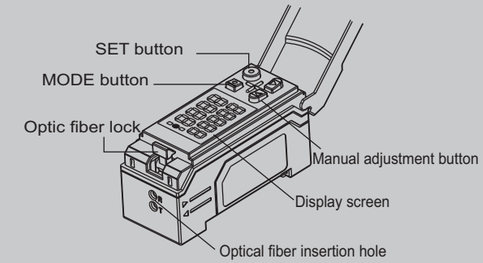
■ Amplifier V5EB-C1

- Automatic mixing generates the required light source, and enables stable color detection.
- Intelligent, digital sensitivity setting, multi digit display, good visual effect, simple and quick.
- 200μs high speed reaction, a variety of sensing heads are selected and used widely.

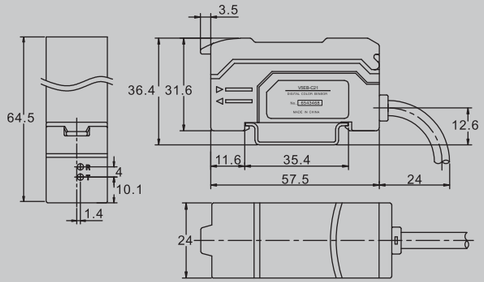
■ Display screen



■ Name of each part



■ Size diagram



■ Amplifier parameters

Amplifier model	NPN	V5EB-C1N	V5EB-C1SN
	PNP	V5EB-C1P	V5EB-C1SP
Light source		Red LED、Green LED、Blue LED	
Reation time		200μs(HSP)/1ms(FINE)	200μs
Indicator		Output: Red LED、External synchronization input:Red LED、Matching rate / received light intensity: LED (green/red)	Output: red LED, matching rate / receiving light intensity: LED (green/red)
Erro display		Excessive intensity, lack of light intensity, lack of color difference	
Calibration method		Single point / two point calibration	Two point calibratio
Error value adjustment		Digital display number setting	
Differential identification model		Mode C / mode C+I / mode I	Mode C+I
Timing function		Timer OFF/ON delay/OFF delay/Single shot	
Output selection		Match output: when target color meets record connect. Mismatch output: when the target color is different from the record color, connect it	
External synchronization input		Reaction speed: max.500μs	N/A
External calibration input		Input reaction time: minimum 20ms	N/A
Record color selection		Database selection (external input or key operation), no voltage input.	N/A
Control output		NPN (PNP): Max 40VDC max (100mA), residual voltage: Max 1.0V	
Circuit protection		Reverse electrode protection (power supply), over current protection (output), and over voltage (output).	
Power Supply		12 to 24VDC±10%, Pulse voltage (P-P): maximum 10%	
Current consumption		Max. 75mA	
Ambient brightness		filament lamp: Max.5,000lux, sunlight: max.10,000lux	
Case material		polycarbonate	
Weight(with 2m cable)		Approx. 170g	