

TECHNICAL DATA SHEET

WHITE LED LIGHT SOURCE LONG-RANGE COLOR-CODED SENSORS **GS-C500** series



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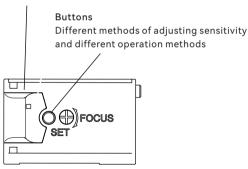


Product characteristics

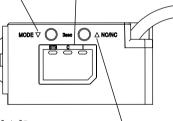
- White LED light source, wide wavelength, can stably detect color or appearance differences;
- 500mm long-distance detection;
- Good anti-shake performance, with background suppression function;
- GS-C500 can adjust the spot size;
- Color standard can store 9 colors at the same time;
- Optional with IO-LINK communication.

Product Analysis

Indicator light Off: Output OFF Orange: Output ON Red (flashing): Error

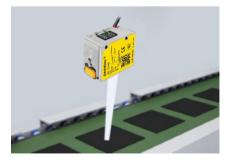


STB: Green light turns on when light is available C: Green light turns on when in C/C+I mode I: Green light turns on when in C+I/Super I mode



↓ Buttons ↓
 Less than 1s to change the setting value
 More than 3s to switch between N · O/N.C

Application example



Detect the presence of thin sheets

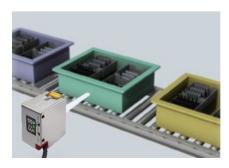


[▼]Buttons

· Change the setting value in less than 1s

• Enter the setting screen in more than 3s

Detect the presence of glue

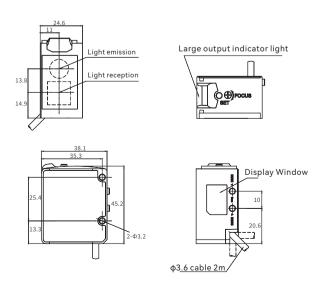


Detect the color of objects on the conveyor belt

Product Parameters

Model	NPN / PNP	GS-C500N / GS-C500P
Detection distance		50 to 500 mm
Minimum light spot diameter		Approx. φ3.5 mm (at 100 mm) Approx. φ9 mm (at 250 mm) Approx. φ20 mm (at 500 mm)
Response time		200 μs/1 ms/10 ms/500 ms
Light source		White LED
Mutual interference reduction		Set different frequencies, up to 2 units
Power supply	Voltage	10 to 30 VDC with ripple (P-P) 10%, Class 2 or LPS
	Current Consumption	50mA or less at 24V 100mA or less at 12V
Timer		OFF/On delay/Off delay/Single
I/O	Control output	NPN open collector/PNP open collector switchable 30V or less, 100mA or less, residual voltage 2V or less N.O./N.C. switchable
	External input	Tuning/stop transmission switch type
Protection circuit		Power reverse connection protection, power surge protection, output overcurrent protection, output surge protection
Ambient light		Incandescent lamp: 10000Lx or less Sunlight: 20000Lx or less
Ambient temperature		-20 to +50°C (no freezing)
Relative humidity		35 to 85%RH (no condensation)
Impact resistance		1,000m/s², 6 times in each direction of X, Y, and Z
Vibration resistance		10 to 55Hz double amplitude 1.5mm, 2 hours in each direction of X, Y, and Z
Protection level		IP65
Material		Casing: zinc casting (chrome plating), indicator cover: PC, button: stainless steel
Weight 128		128g

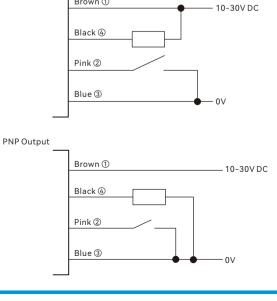
Size



Input / Output Wiring Diagram

Brown ①

NPN Output



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