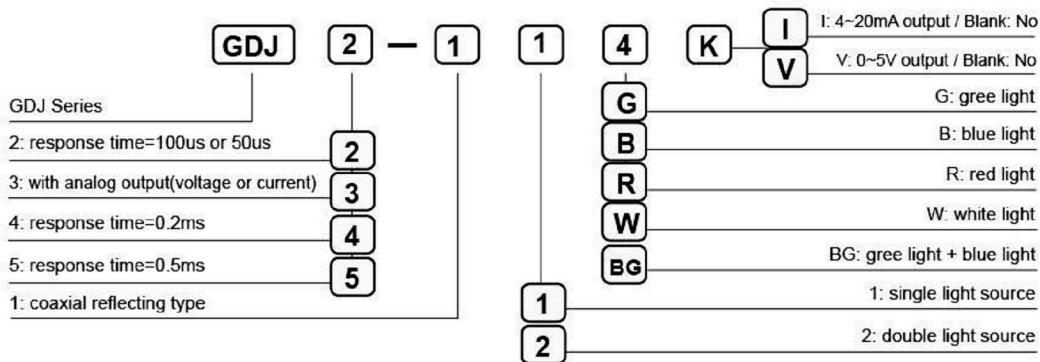


PRODUCT CENTER

Product Catalog


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Code : GDJ Series Color Mark Sensor
Features :
Features:

- * According to the principle of photo emission and receiving, color mark sensor sends out modulated ray to the target object, and receives the ray reflected from the object. The color of object can be detected or the object can be identified existed or not by the intensity of the reflected ray.
- * High capability to reject the radial and the electromagnetic interferences.
- * Housing: precision die casting metal housing, well heat elimination, electromagnetic shield and compactness.
- * With light-on and dark-on function, with output LED indicator.
- * Sensitivity adjustable by point meter, single loop or multi loops optional to user.
- * Against polarity reversal, short circuit and overload protection.
- * Adopt SMT automatic technique.
- * Capable of detecting transparent objects.
- * Application: color mark sensor is used in the control systems of the soft packaging line, the printing machine, food stuff machine, textile and paper-making machine as well as other circuits and devices. It can also identify the color mark printed on background color.

1. Product model is named:

2. Ordering Code:

Model and Type	Series No.	Light Kind	No. Of Light Source	Color Of Light Source	Output	Buy
GDJ-511G	5	Coaxial reflecting kind	1	Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-511BG	5	Coaxial reflecting kind	1	Blue+Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-411G	4	Coaxial reflecting kind	1	Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-411BG	4	Coaxial reflecting kind	1	Blue+Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-411W	4	Coaxial reflecting kind	1	White	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-211G	2	Coaxial reflecting kind	1	Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-211B	2	Coaxial reflecting kind	1	Blue	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-211BG	2	Coaxial reflecting kind	1	Blue+Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-211W	2	Coaxial reflecting kind	1	White	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-311G-V	3	Coaxial reflecting kind	1	Green	Voltage 0~5V output	<input type="checkbox"/>
GDJ-311G-I	3	Coaxial reflecting kind	1	Green	Current output 0~20mA	<input type="checkbox"/>
GDJ-311BG-V	3	Coaxial reflecting kind	1	Blue+Green	Voltage 0~5V output	<input type="checkbox"/>
GDJ-311BG-I	3	Coaxial reflecting kind	1	Blue+Green	Current output 0~20mA	<input type="checkbox"/>
GDJ-311W-V	3	Coaxial reflecting kind	1	White	Voltage 0~5V output	<input type="checkbox"/>
GDJ-311W-I	3	Coaxial reflecting kind	1	White	Current output 0~20mA	<input type="checkbox"/>

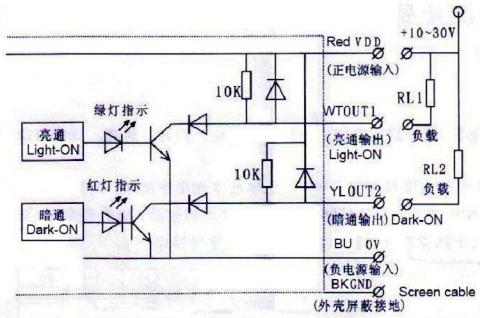
GDJ-312	3	Coaxial reflecting kind	2 light source	Red	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>
GDJ-312BG	3	Coaxial reflecting kind	2 light source	Blue + Green	NPN or PNP (Dark-On and Dark-Off)	<input type="checkbox"/>

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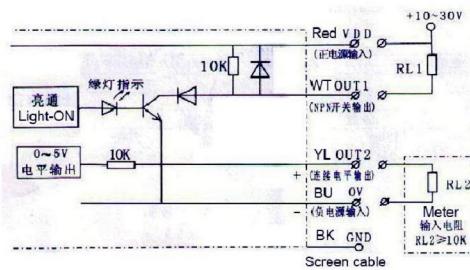
3. Technical Specifications:

Property project	Specific parameter
Light source 1:	GDJ-211: green or blue or white or green+blue
Light source 2:	GDJ-311: green or blue or white or green+blue
Light source 3:	GDJ-411: green or blue or white or green+blue
Light source 4:	GDJ-511: green or green+blue
Response time 1:	GDJ-211: 100us or 50us; GDJ-311: 50us
Response time 2:	GDJ-411: 200us or 50us; GDJ-511: 200us
Detect Distance 1:	GDJ-211: 1mm; GDJ-311: 1mm
Detect Distance 2:	GDJ-411: 11mm; GDJ-511: 12mm
Switch output 1:	NPN or PNP output (dark on and dark off)
Switch output 2:	Voltage output 0~5V or Current output 0~5V
Switch output current	200mA
Switch output voltage	Low level (open): 0.15V or High level (close): around 0.8V
Protection	Short circuit or overload protection or Against Polarity or Reverse or IP54 ratings
Size 1:	GDJ-211: 111*21.5*5.5H; GDJ-311: 110*30W*5H
Size 2:	GDJ-411: GDJ-511: 51L*23W*40H
Power Supply	DC 10~30V

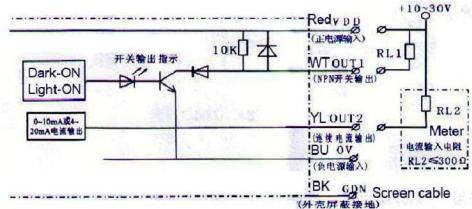
4. Electrical Connection Diagram:



GDJ-211 Connection Diagram

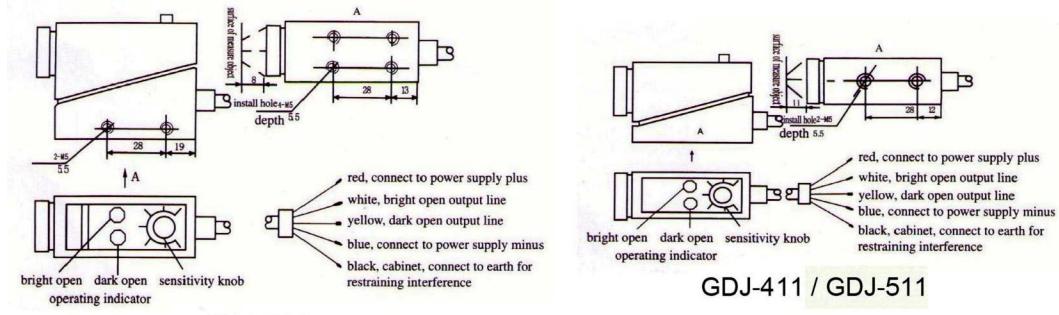


GDJ-311 Voltage Output Connection Diagram



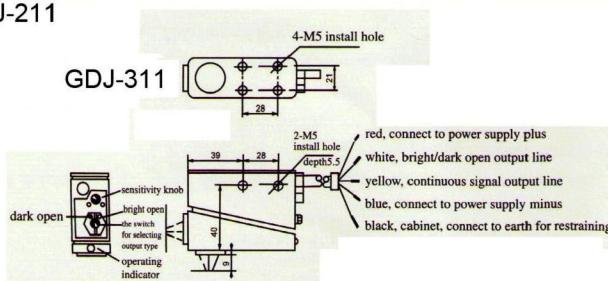
GDJ-311 Current Output Connection Diagram

5. The picture of product mi:



red, connect to power supply plus
white, bright open output line
yellow, dark open output line
blue, connect to power supply minus
black, cabinet, connect to earth for restraining interference

GDJ-411 / GDJ-511



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