



คุณสมบัติ

- **Easy Setup Color Sensors : CVSE1-RA Series** เป็น Vision Sensor ประกอบด้วย **Controller, Monitor, Camera, Light Source** อยู่ในตัวเดียวกัน
- **CVSE1-RA Series** ทำงานโดยตรวจจับคุณภาพของสีได้ โดยการคำนวณจาก **Pixel**
- ความละเอียดของสี **15,000 สี**
- ระบุ Output การใช้งานได้ NPN หรือ PNP เลือกจาก Model การสั่งซื้อ
- Cable type สายสัญญาณมีความยาวถึง 2 เมตร

ข้อมูลทางเทคนิค

Model	CVSE1-N10-RA CVSE1-P10-RA	CVSE1-N20-RA CVSE1-P20-RA	CVSE1-N21-RA CVSE1-P21-RA	CVSE1-N40-RA CVSE1-P40-RA
Detection angle	10°	20°		40°
Working distance	210 to 270mm	90 to 150mm	31 to 39mm	50 to 100mm
Field of view	40 x 50mm to 55 x 65mm	40 x 50mm to 65 x 75mm	17 x 20mm (±10%)	50 x 65mm to 100 x 115mm
Light source	White LED 12 pcs built-in			
Image sensor	330,000 Pixel CMOS color image sensor			
Supply Voltage	12 to 24V DC ±10%			
Power consumption	Max. 120mA/24V DC			
Resolution	5 x 12 to 200 x 240			
LED light duration	Approx.50,000 hours (In normal temperature and humidity. Brightness level down by 1/2 of the initial level)			
Response time	2.9 to 27.7ms(Factory setting : 16.7ms) SYNCRO=ON, BRIGHT=100			
Output	NPN or PNP open collector output x 1 max.100mA Residual voltage 1.0V or less			
Input	Bank select 0 to 3, Sync input			
Operating temperature	0 to 40°C (No condensation)			
Operating humidity	35 to 85%RH			
Storage temperature/humidity	-20 to 70°C, 35 to 95%RH (No condensation)			
Vibration/shock resistance	10 to 55Hz Amplitude 1.5mm/50G (500m/s ²)			
Material	Case:ABS/Display and Lens : Acryl or Polycarbonate			
Protection structure	IP67			
Weight	Approx.200g (including cable)			

Application

Checking existence of seasoning bag



CVSE1-RA
Set the extracted color from the seasoning bag and check its area in the field of view

Checking existence of label on package



CVSE1-RA
Set the major color on the label and check its area in the field of view

Checking existence of description of pills



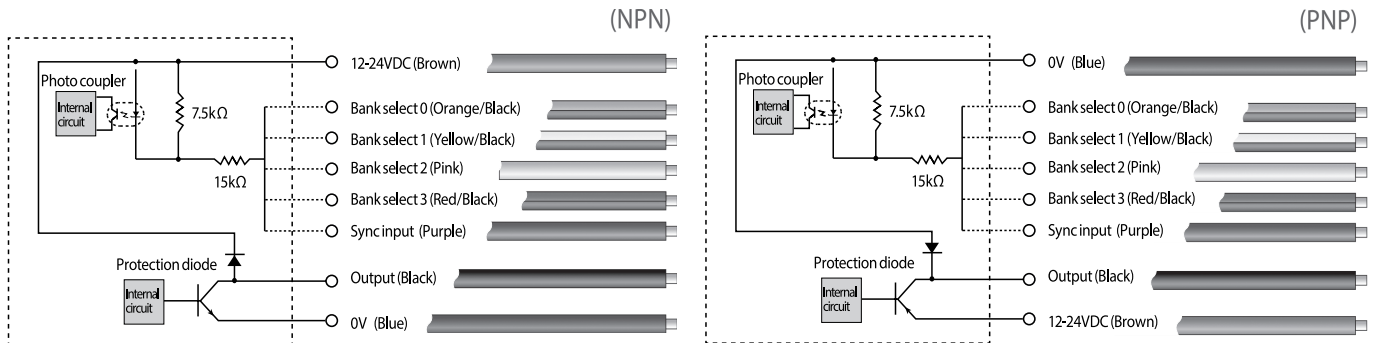
CVSE1-RA
Set the color area of description of pills in the field of view

Checking marking on electric components



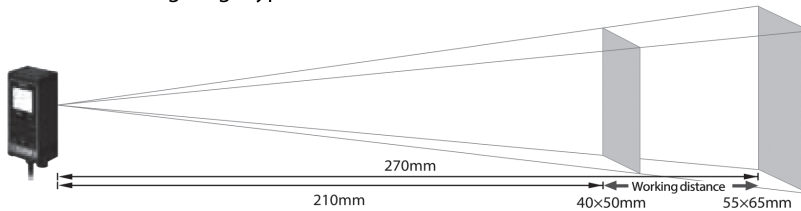
CVSE1-RA
Set the color of the marking and check its area in the field of view. Narrow angle view version can zoom up small area.

การต่อใช้งาน

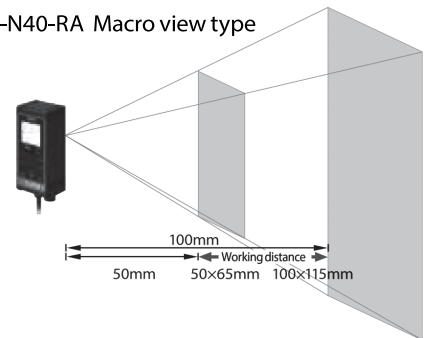


ลักษณะแสดงระยะการตรวจจับ

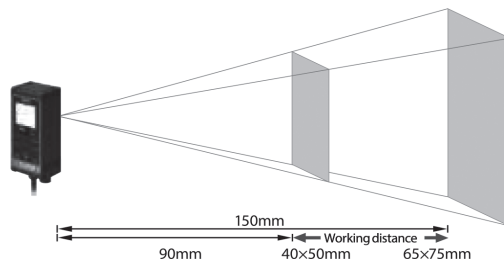
CVSE1-N10-RA Long range type



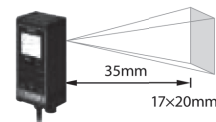
CVSE1-N40-RA Macro view type



CVSE1-N20-RA Standard type



CVSE1-N21-RA Narrow view type



ขนาดและมิติ

