



คุณสมบัติ

- **Color and Pattern Matching Sensors : CVS2-RA Series** เป็น Vision Sensor ประกอบด้วย Controller, Monitor, Camera, Light Source อยู่ในตัวเดียวกัน
- **CVS2-RA Series** ทำงานโดยตรวจจับสีและรูปร่างของวัตถุได้ โดยการคำนวณจาก Pixel
- **ความละเอียดของสี 33,000 สี**
- ระบุ Output การใช้งานได้ NPN หรือ PNP เลือกจาก Model การสั่งซื้อ
- Cable type สายสัญญาณมีความยาวถึง 2 เมตร

ข้อมูลทางเทคนิค

Model		CVS2-N10-RA CVS2-P10-RA	CVS2-N20-RA CVS2-P20-RA	CVS2-N21-RA CVS2-P21-RA	CVS2-N40-RA CVS2-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. 140mA/24V DC			
Resolution		8 x16 to 200 x 240			
LED light duration		Approx.50,000 hours(In normal temperature and humidity. Brightn ess level down by 1/3 of the initial level)			
Response time	Pattern matching mode	9.2/15.2/21.2/27.3ms (Standerd mode) 6.7/10.9/15.2/19.5ms (Double speed mode)			
	CVS1 compatible mode	8.7/14.8/20.8/26.8ms (Standerd mode) 5.7/9.7/13.5/17.3ms (Double speed mode)			
Output		NPN or PNP open collector output x 2 max. 100mA Residual voltage 1.0V or less			
Input		Bank select 0 to 1, Bank select 2 (switchable to Teach input), Bank select 3 (switchable to Sync input), Teach in (switchable to Bank select 3 or Auxiliary output)			
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 the lid of instant foods



CVS2-RA
Check the color and shape by its pattern matching function

Checking multiple colors on the box



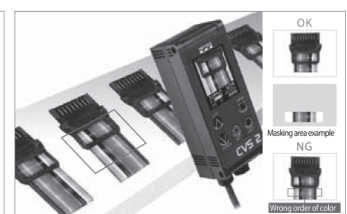
CVS2-RA
Check existence of multiple color on the box registering multiple colors as reference

Checking ON/OFF of LED on PWB



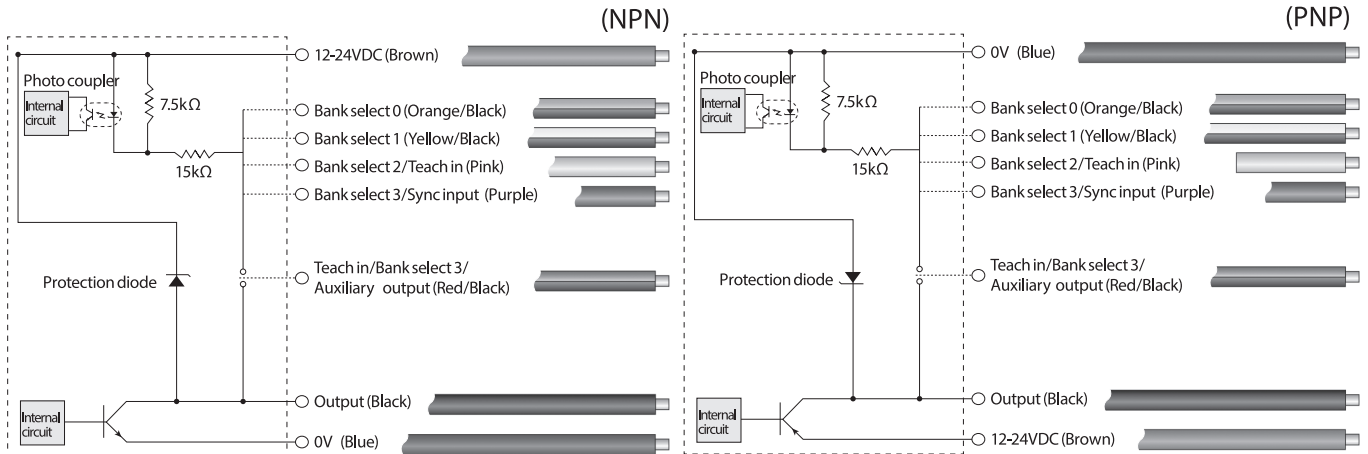
CVS2-RA
Check the color and position of LED by its color pattern matching function

Checking order of the color of wires



CVS2-RA
Check the color and position of wires by its color pattern matching function

การต่อใช้งาน

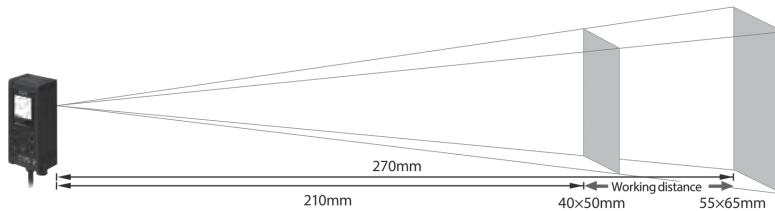


Auxiliary output

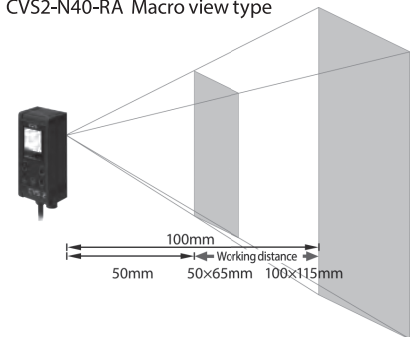
AUX OUT=0: Ready - Turns OFF after switching Bank. Turns ON when Output is ready
 AUX OUT=1: Judge timing - Turns ON when Judge timing
 AUX OUT=2: Light timing - Turns ON when Lighting
 AUX OUT=3: Searching result - Turns ON when each search result is in its criteria, MAGNIFY%, POSIT% X, POSIT% Y, ROTATE%

ลักษณะแสดงระยะการตรวจจับ

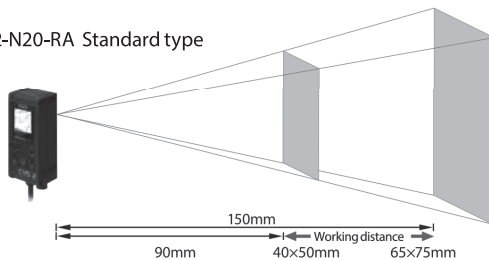
CVS2-N10-RA Long range type



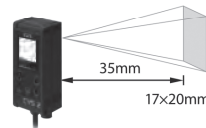
CVS2-N40-RA Macro view type



CVS2-N20-RA Standard type



CVS2-N21-RA Narrow view type



* Input/Output selectable by setup

ขนาดและมิติ

