

**All-In-One Color Detection System.  
Controller, Camera, Display and Light source  
are combined into one complete unit.  
The CVS1 is the latest in color sensing.**

## Color Identity Sensor

# CVS1

*Three models, optional  
remote light source and/or  
remote monitor*



### **Bottle filling application**

*The CVS1 is able to verify the fill level of the bottle  
as it passes in front of the sensor.*



### **Label detection**

*The CVS1 is able to detect that the label is present  
and in the correct orientation on the package.*



### **Product checking**

*The CVS1 can be used to check for the presence of  
the instruction sheet in the package prior to closing  
and sealing the container.*

- Compact design
- Easy to operate
- Color LCD display

- High speed detection
- Stores up to 15 different settings
- Choice of three viewing angles 10°, 20° and 40°

# CVS1 Color Identity Sensor

## All-In-One Design



## Field of view

The CVS1 sensors are offered in three different sensing ranges and viewing angles

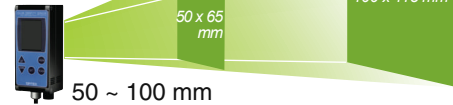
CVS1-N/P10



CVS1-N/P20



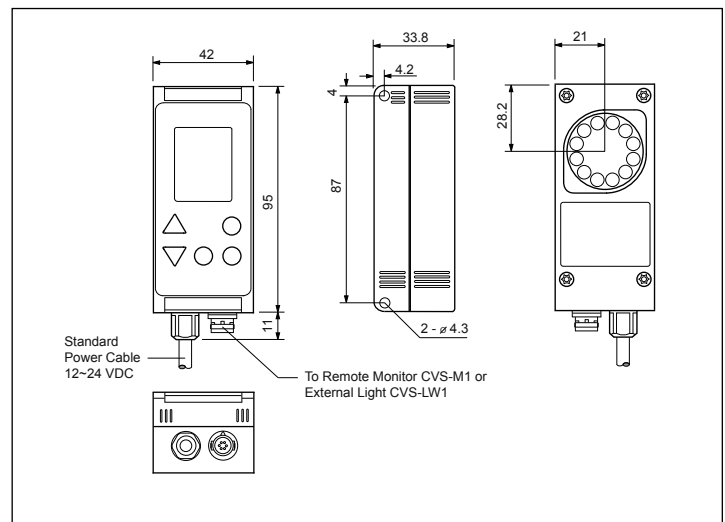
CVS1-N/P40



## Specifications

Type		CVS1 Color Vision Sensor		
		Long Distance	Standard	Short Distance
Model Number	NPN	<b>CVS1-N10</b>	<b>CVS1-N20</b>	<b>CVS1-N40</b>
	PNP	<b>CVS1-P10</b>	<b>CVS1-P20</b>	<b>CVS1-P40</b>
Sensing Range		210 - 270 mm	90 - 150 mm	50 - 100 mm
View Angle		10°	20°	40°
Image Viewing Area		40 x 50 mm to 55 x 65 mm	40 x 50 mm to 65 x 75 mm	50 x 65 mm to 100 x 115 mm
Light Source		White LED: (12 pcs.)		
Supply Voltage		12 ~ 24 VDC +/-10%		
Resolution		8 x 16 x 3 (RGB) - 200 x 240 x 3 (RGB)		
Response Speed		0.6 - 22 msec.		
Control Output		NPN / PNP Open Collector Transistor, 100 mA		

## Dimensions



Optex-FA U.S. sales  
 Ramco Innovations  
 (800) 280-6933  
 www.optex-ramco.com

