



## Vision sensors CVS, CVS2

CVS2-P122



**Model Name** > CVS2-P122  
**Part No.** > 1027333

#### At a glance

- Color inspection and sorting on large fields of view
- Inspecting one color, minimum and maximum fill
- 2-color matching
- Sorting up to 15 colors
- Reference capacity of 15 color configurations
- Parameter up- and download to PC
- Compact IP-67 rated housing with integrated display for configuration and monitoring
- Different variants for different fields of view and working distances

#### Your benefits

- The support for large fields of view ensures reliable color sorting even if your part varies in position
- The minimum and maximum fill tolerance ensures you that there is always correct fill of color on your part before it leaves your line
- The 2-color matching ensures you reliable result on multi- colored objects
- The reference capacity of 15 color configurations gives you the most economic solution for batch production
- Store and restore the configuration from PC will save you time in every repetitive machine installation



#### Features

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Task:                                   | Inspection                                      |
| Technology:                             | 2D<br>Image analysis<br>Snapshot<br>Color       |
| Toolset:                                | 2-color match<br>Color inspection<br>Color sort |
| Sensor:                                 | CMOS matrix sensor, color values                |
| Focus:                                  | Fixed focus                                     |
| Working distance internal illumination: | 90 mm ... 150 mm                                |
| Light source:                           | White                                           |
| Spectral range:                         | Ca. 400 nm ... 750 nm                           |
| LED class:                              | Risk group 1 (low risk, IEC62471 : 2006)        |
| Offline support:                        | Configuration                                   |

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**Performance**

|                        |                              |
|------------------------|------------------------------|
| Resolution:            | 208 px x 236 px x 3 px (RGB) |
| Maximum performance:   | 200 fps                      |
| Typical performance:   | 38 fps                       |
| Number of inspections: | 1                            |

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**Interfaces**

|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| Operator interfaces:      | External display or integrated display                           |
| Configuration software:   | CVS device software, CVS2 Dataloader (PC)                        |
| Communication interfaces: | RS-232                                                           |
| Digital inputs:           | HIGH (corresp. 8 V)                                              |
| Configurable inputs:      | Reference object selection<br>External trigger<br>External teach |
| Digital outputs:          | PNP                                                              |
| Configurable outputs:     | Sorting, Auxiliary                                               |
| Output current:           | < 100 mA                                                         |
| Default outputs:          | Inspection passed                                                |
| Control elements:         | 5 buttons (setup)                                                |

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**Mechanics/electronics**

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Connectors:             | HRS, 6-pin (external lighting/monitor)<br>Cable, 8-wire, 2 m (I/O, power) |
| Power consumption:      | < 220 mA Without output load (at 24 V)                                    |
| Ripple:                 | < 5 Vpp                                                                   |
| Enclosure rating:       | IP 67                                                                     |
| Housing material:       | ABS, Acryl glass, Polycarbonate                                           |
| Weight:                 | 180 g                                                                     |
| Dimensions (L x W x H): | 95 mm x 42 mm x 34 mm                                                     |
| Optics:                 | Integrated                                                                |

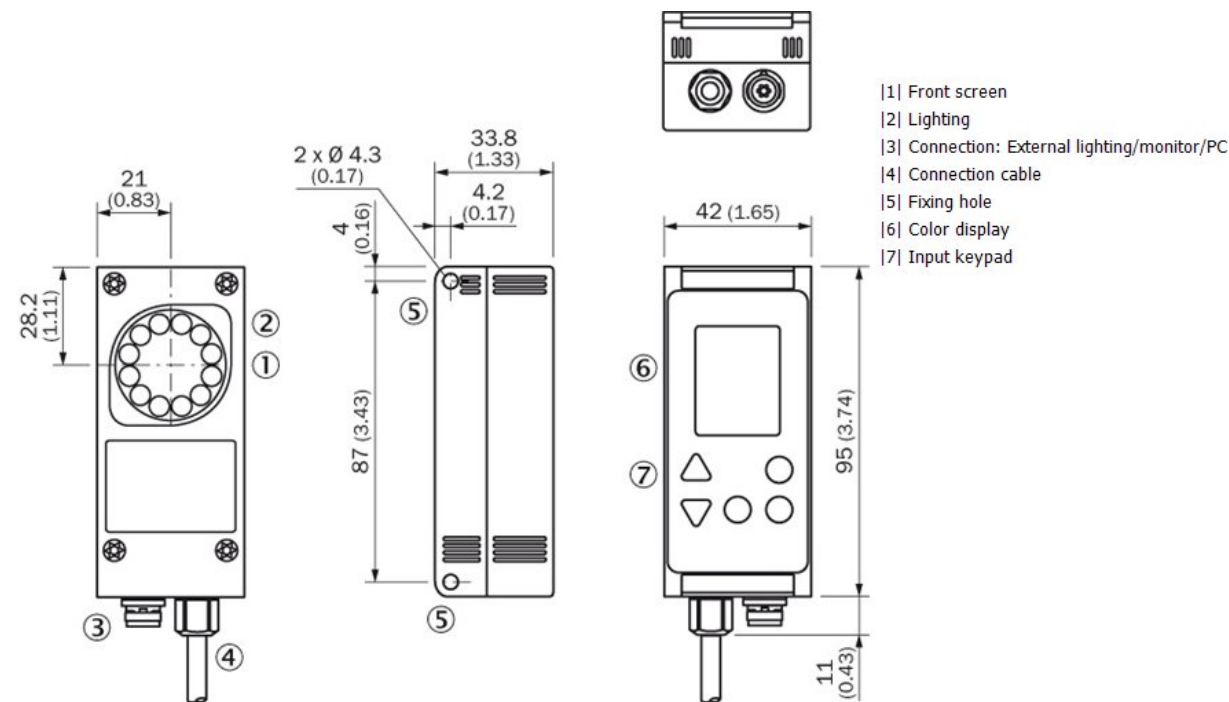
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**Ambient data**

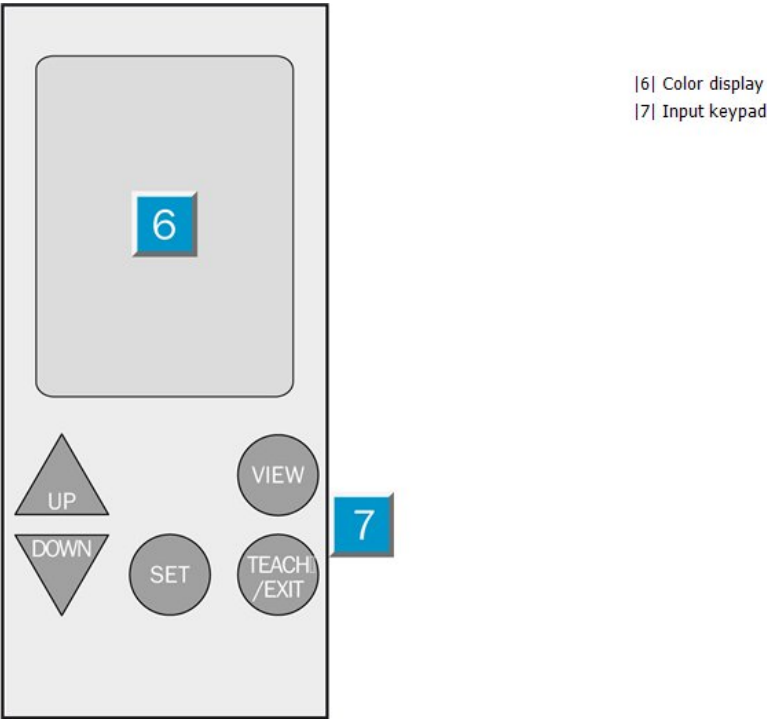
|                                               |                  |
|-----------------------------------------------|------------------|
| Ambient operating temperature <sup>1)</sup> : | 0 °C ... 40 °C   |
| Ambient storage temperature <sup>2)</sup> :   | -20 °C ... 70 °C |

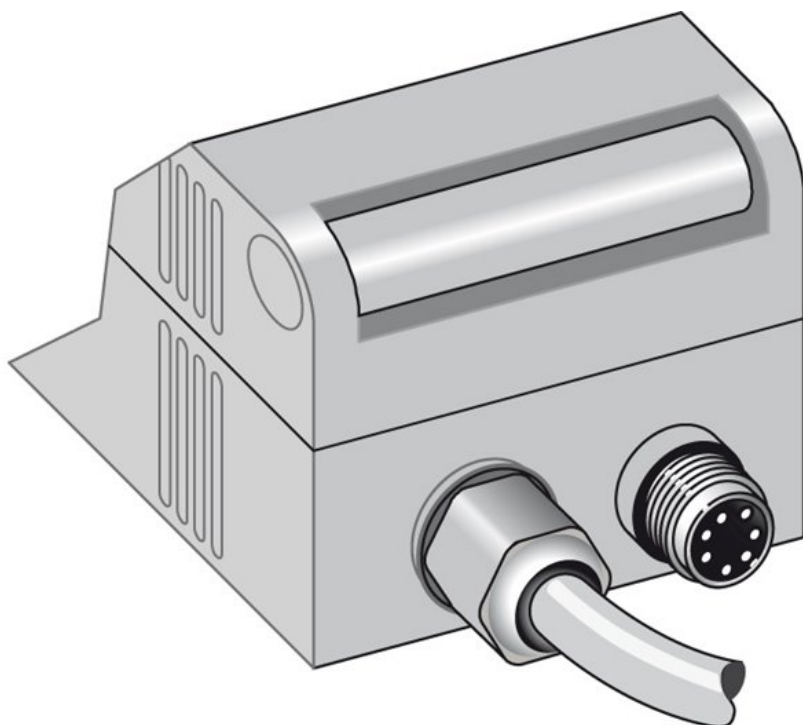
<sup>1) 2)</sup> Relative humidity: 35 % ... 85 %, 95 % at storage

Dimensional drawing



Adjustment possible





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