



## Vision sensors CVS, CVS3

CVS3-N122



**Model Name** > CVS3-N122  
**Part No.** > 1028671

#### At a glance

- Object inspection by shape or size
- Check for surface contamination
- Color imager for contrast optimization
- Reference capacity of 15 reference images
- 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 object inspection by shape ensures you a correct outline of your produced part
- The surface contamination check ensures that no dirt or scratches have appeared on your product before it is sent to your customer
- The color imager enhances contrast on colored objects and makes the decision more reliable
- Reference capacity of 15 reference images reduces the complexity of your batch production control and will save you cost
- The integrated display provides an easy and economical way to monitor the process



**The product has been discontinued. Please follow the "replacement product" link for information about alternative products.**



#### Features

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Task:                                   | Inspection                               |
| Technology:                             | 2D<br>Image analysis<br>Snapshot         |
| Toolset:                                | Contour inspection                       |
| 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:   | 142 fps                      |
| Typical performance:   | 20 fps                       |
| Number of inspections: | 1                            |

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**Interfaces**

|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| Operator interfaces:      | External display or integrated display                           |
| Configuration software:   | CVS device software, CVS3 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:          | NPN                                                              |
| Configurable outputs:     | Auxiliary                                                        |
| Output current:           | < 100 mA                                                         |
| Default outputs:          | Inspection passed                                                |

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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                                                     |

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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 |

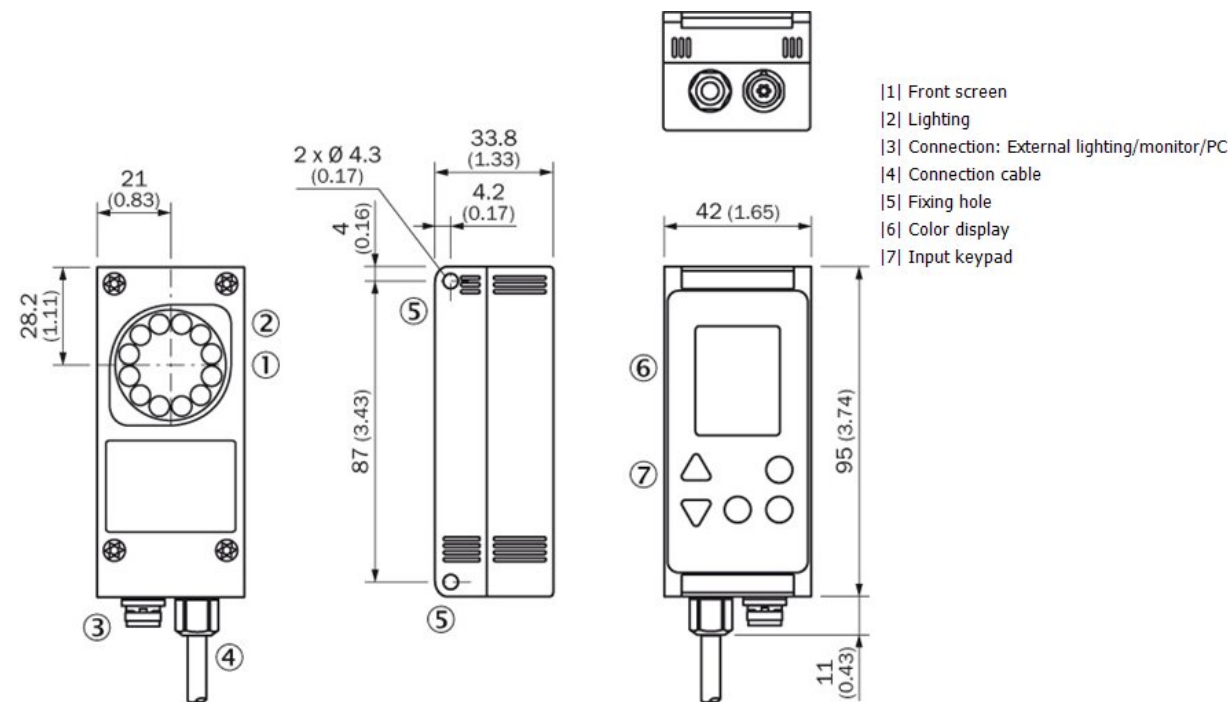
<sup>1) 2)</sup> Relative humidity: 35 % ... 85 %, 95 % at storage

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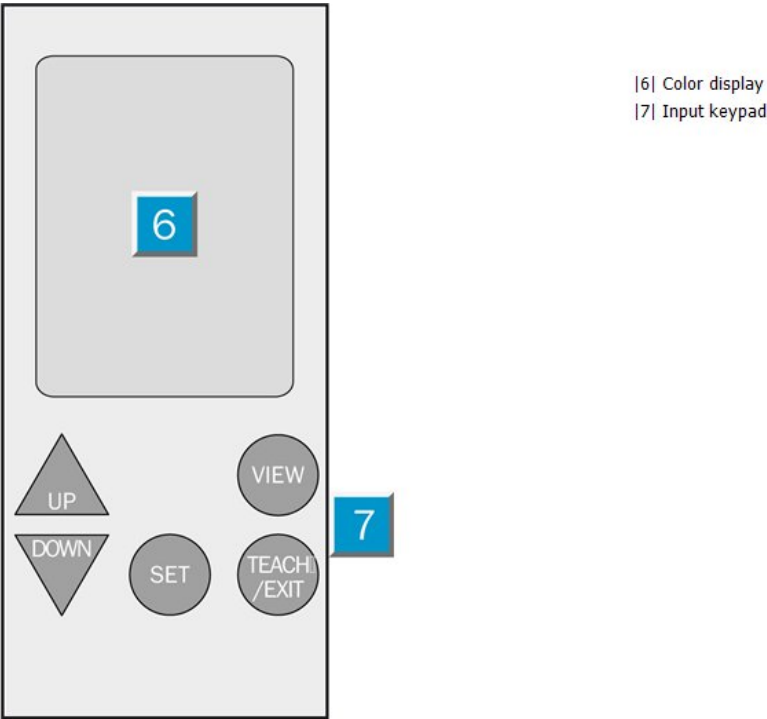
**General notes**

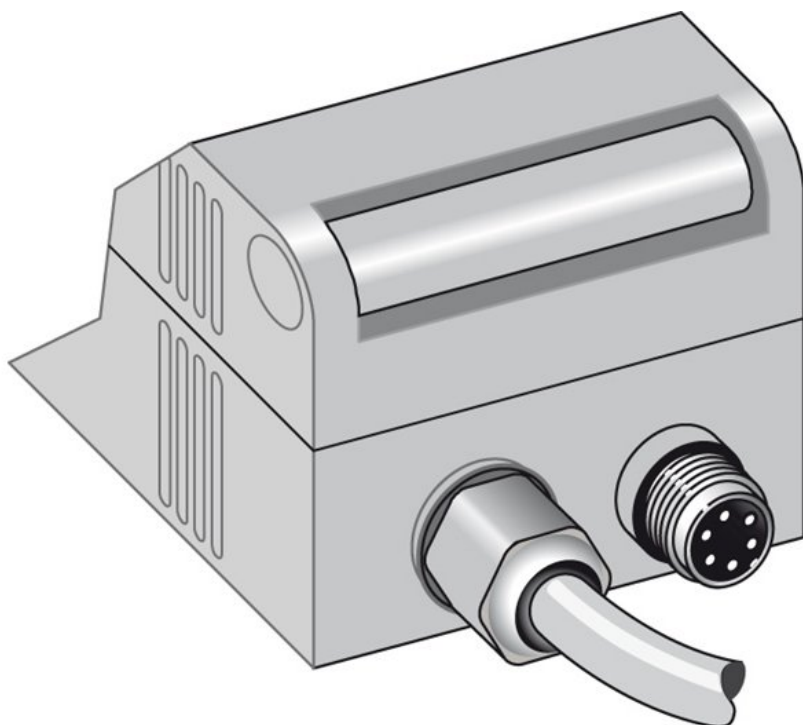
|                   |            |
|-------------------|------------|
| Life cycle phase: | Phased out |
|-------------------|------------|

Dimensional drawing



Adjustment possible





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