



Vision sensors CVS, CVS1 Easy

CVS1-N142Easy



Model Name > [CVS1-N142Easy](#)
Part No. > [1028667](#)

At a glance

- Color inspection on large fields of view
- Inspecting one color, minimum fill
- Plug & play teach wizard
- Reference capacity of eight colors
- 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 inspection even if your part varies in position
- The minimum fill tolerance ensures you that enough color fill is applied
- The integrated display provides an easy way to check that correct reference is selected for present line task
- The reference capacity of eight colors saves you component complexity and cost in multi-color batch lines
- The plug & play teach wizard makes it possible for any of your staff to create a successful teach-in



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



Features

Task:	Inspection
Technology:	2D Image analysis Snapshot Color
Toolset:	Color inspection
Working distance internal illumination:	50 mm ... 100 mm
Light source:	White
Spectral range:	Ca. 400 nm ... 750 nm
LED class:	Risk group 1 (low risk, IEC62471 : 2006)

Performance

Resolution:	200 x 240 x 3 (RGB) pixels
Maximum performance:	1,667 fps

Typical performance:	91 fps
Number of inspections:	1

Interfaces

Operator interfaces:	External display or integrated display
Configuration software:	CVS device software
Digital inputs:	HIGH (corresp. 8 V)
Configurable inputs:	Reference object selection External trigger
Digital outputs:	NPN
Output current:	< 100 mA
Default outputs:	Inspection passed

Mechanics/electronics

Connectors:	HRS, 6-pin (external lighting/monitor) I/O + Vs: cable, 7-wire, 2 m
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

Ambient data

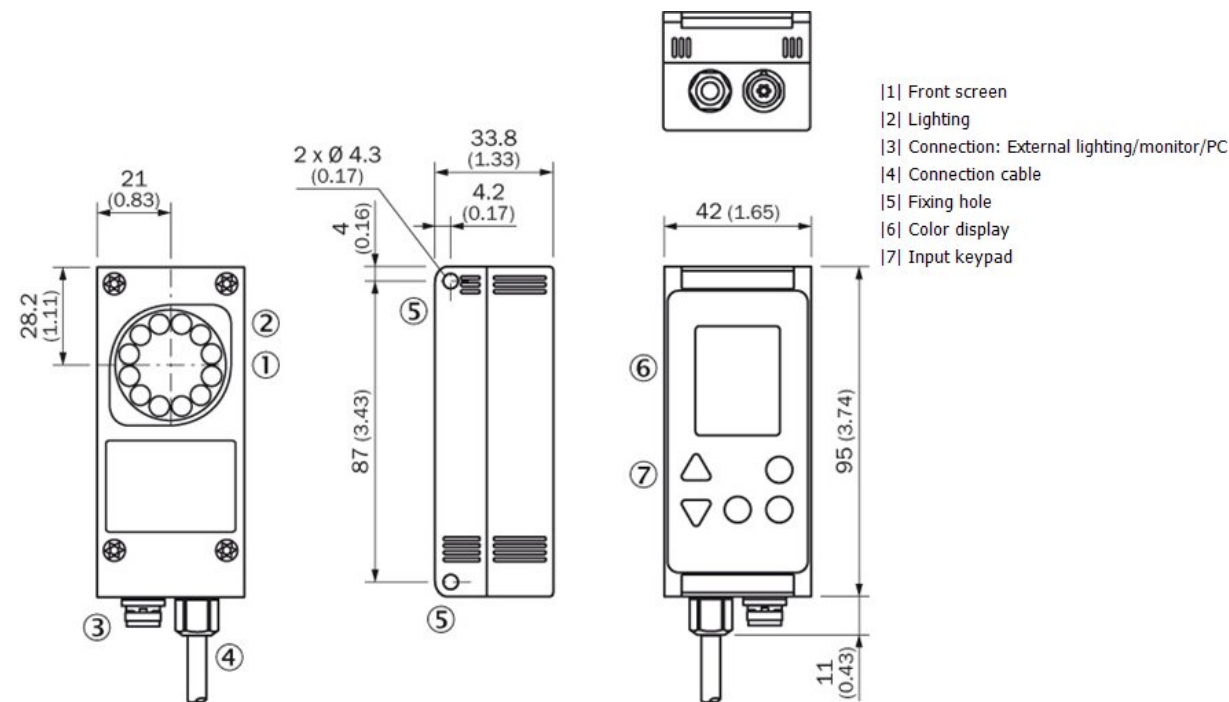
Ambient operating temperature ¹⁾ :	0 °C ... 40 °C
Ambient storage temperature ²⁾ :	-20 °C ... 70 °C

^{1) 2)} Relative humidity: 35 % ... 85 %, 95 % at storage

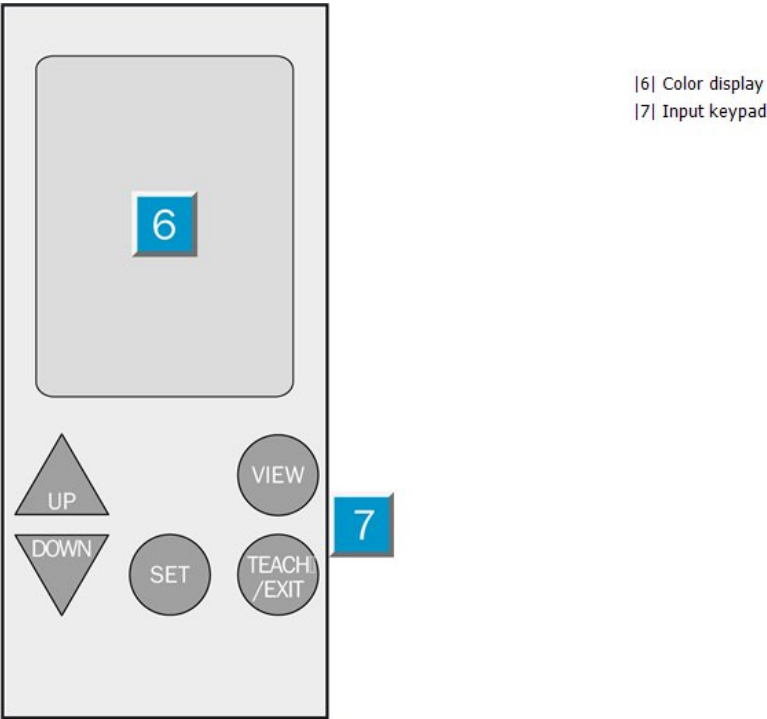
General notes

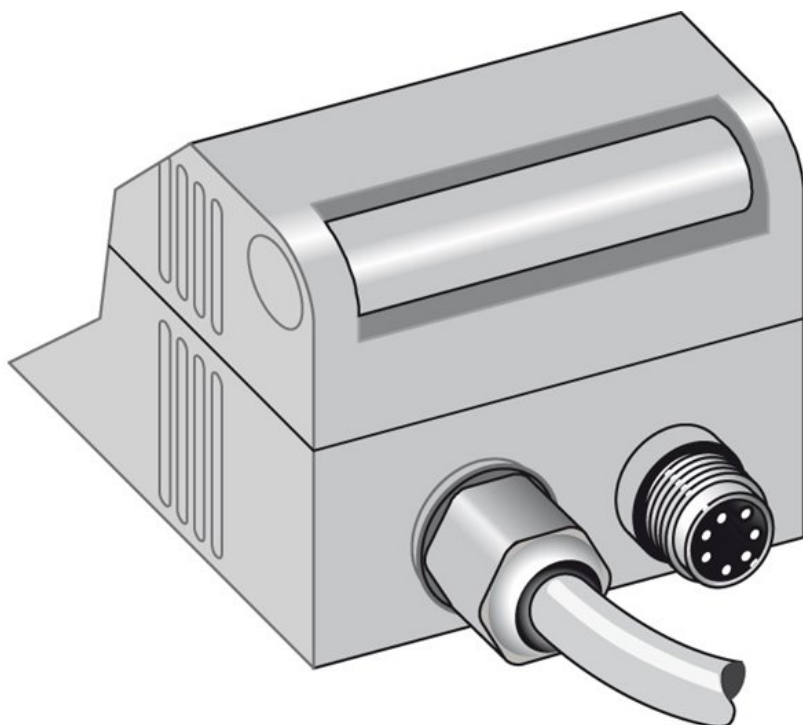
Life cycle phase:	Phased out
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Dimensional drawing



Adjustment possible





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