



Vision sensors CVS, CVS4

CVS4-N142



Model Name > CVS4-N142
Part No. > 1028966

At a glance

- Identification of date, time, string or batch number
- Automatic date update
- Automatic batch number count-up
- Read-out of character string
- Predefined character set or user learned
- Reference capacity of 16 teach configurations
- 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 identification function of CVS4 will make sure that the produced part is tagged with correct date, time, string or batch number without a complex camera solution
- The "automatic date update" of CVS4 ensures that your reference is always up to date
- The "valid date range" tolerances reduces re-teach time when the correct inspected date is not the present date
- The automatic batch number count-up makes batch number inspection the easiest task
- The "user learn character" support gives you flexibility in character design
- The reference capacity of 16 teach configurations 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



Features

Task:	Identification
Technology:	2D Image analysis Snapshot
Toolset:	OCR OCV
Working distance internal illumination:	40 mm ... 100 mm
Light source:	White
Spectral range:	Ca. 400 nm ... 750 nm
LED class:	Risk group 1 (low risk, IEC62471 : 2006)
Offline support:	Configuration

Performance

Resolution:	512 x 242
Maximum performance:	43 fps
Typical performance:	20 fps
Number of inspections:	4
Character width:	2.8 mm ... 44 mm
Character height:	2.8 mm ... 43 mm

Interfaces

Operator interfaces:	External display or integrated display
Configuration software:	CVS device software, CVS4 Dataloader (PC)
Communication interfaces:	RS-232
Digital inputs:	HIGH (corresp. 8 V)
Configurable inputs:	Reference object selection String input Encoder input External trigger External teach
Digital outputs:	NPN
Configurable outputs:	Control of external light, Auxiliary
Output current:	< 100 mA
Default outputs:	Inspection passed
Maximum encoder frequency:	2 kHz

Mechanics/electronics

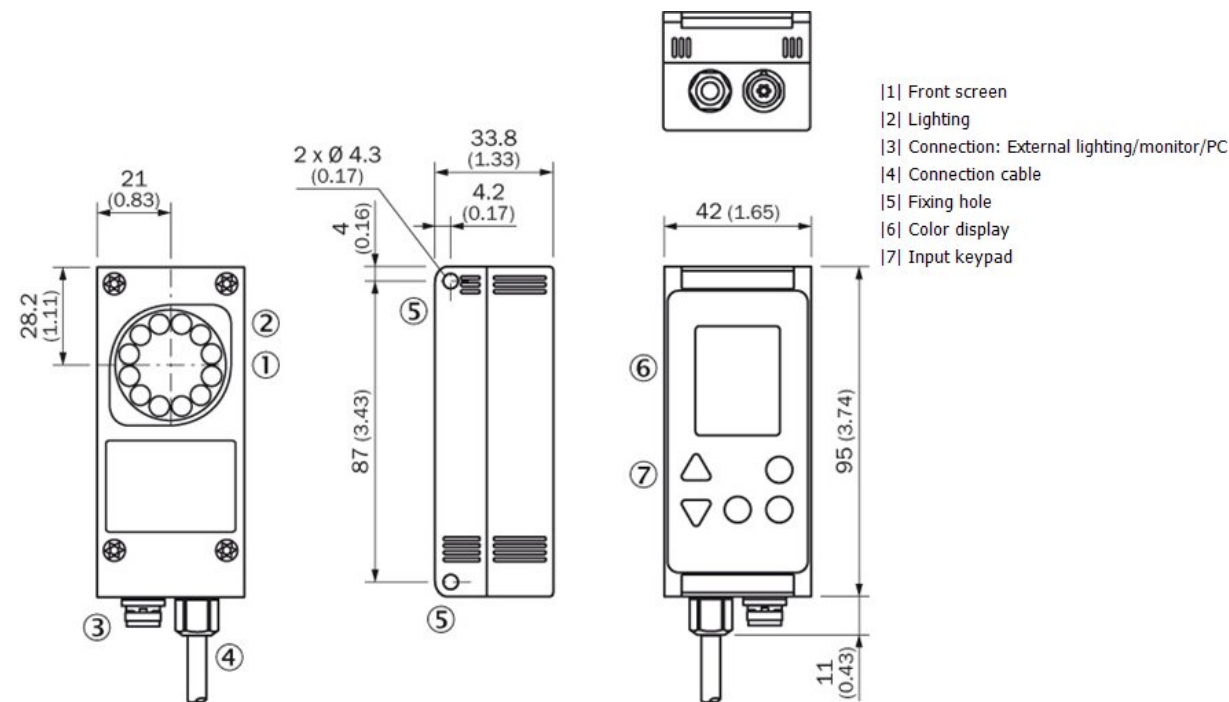
Connectors:	HRS, 6-pin (external lighting/monitor) Cable, 8-wire, 2 m (I/O, power)
Power consumption:	< 140 mA Without output load (at 24 V)
Ripple:	< 5 Vpp
Enclosure rating:	IP 67
Housing material:	ABS, Acryl glass, Polycarbonate
Weight:	200 g
Dimensions (L x W x H):	95 mm x 42 mm x 34 mm

Ambient data

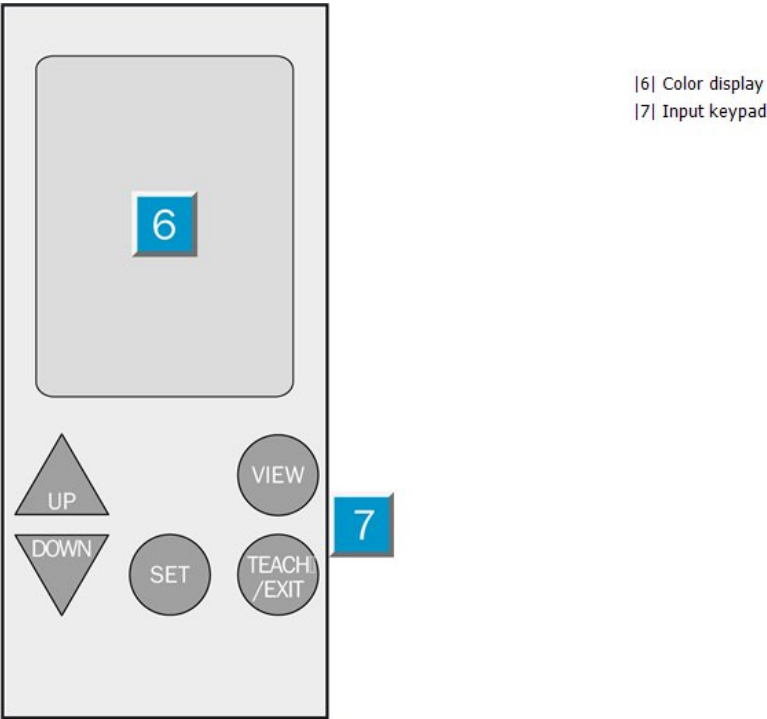
Ambient operating temperature ¹⁾ :	0 °C ... 40 °C
Ambient storage temperature ²⁾ :	-20 °C ... 70 °C

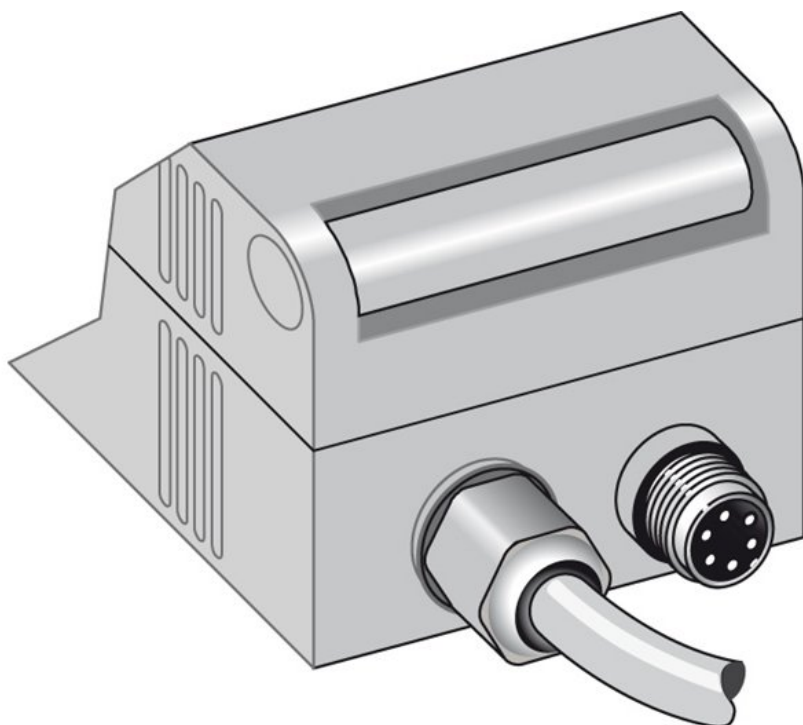
^{1) 2)} Relative humidity: 35 % ... 85 %, 95 % at storage

Dimensional drawing



Adjustment possible





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