



DATA SHEET

CVS2-P122

CVS
2D machine vision



2D MACHINE VISION

CVS2-P122

ORDERING INFORMATION

Type	part no.
CVS2-P122	1027333

Further device versions and accessories at www.sick.com/CSV

DETAILED TECHNICAL DATA

FEATURES

Product category	Configurable
Toolkit	Color recognition Color sort Reconciliation of object color to background
Sensor	CMOS matrix sensor, color values
Optical focus	Fixed focus
Working distance	90 mm ... 150 mm
LED class	Risk group 1 (low risk, IEC62471 : 2006)
Spectral range	Approx. 400 nm ... 750 nm
Offline support	Configuration
Lens	Integrated

MECHANICS/ELECTRONICS

Connection type	Cable, 8-wire, 2 m (I/O, power) HRS, 6-pin (external lighting/monitor)
Ripple	< 5 V _{pp}
Current consumption	< 220 mA, without output load (at 24 V)
Enclosure rating	IP67
Housing material	ABS, acryl glass, polycarbonate
Weight	180 g
Dimensions (L x W x H)	95 mm x 42 mm x 34 mm

PERFORMANCE

Sensor resolution	208 px x 236 px x 3 px (RGB)
Scan/frame rate	38 fps
Number of inspections	1

INTERFACES

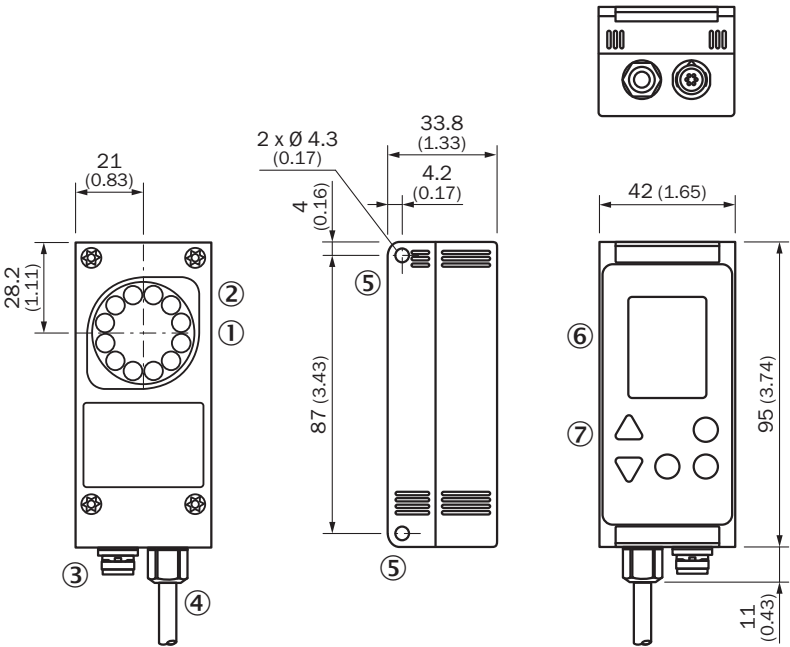
Serial	✓ , RS-232
Operator interfaces	External display or integrated display
Configuration software	CVS software, CVS2 Dataloader (PC)
Digital input	HIGH (equal to 8 V)
Configurable inputs	External trigger, reference object selection
Digital output	PNP
Configurable outputs	Addition, Sorting
Output current	< 100 mA
Standard outputs	Inspection passed
Control elements	5 buttons (setup)

AMBIENT DATA

Ambient operating temperature	0 °C ... +40 °C ¹⁾
Storage temperature	-20 °C ... +70 °C ¹⁾

¹⁾ Relative humidity: 35% ... 85%, 95% in warehouse.

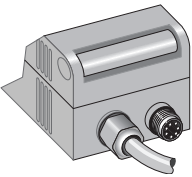
DIMENSIONAL DRAWING



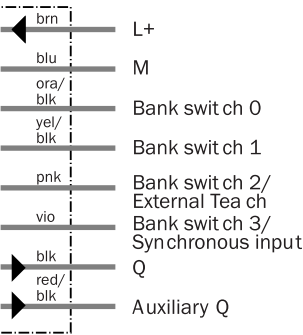
Dimensions in mm (inch)

- ① Front screen
- ② Lighting
- ③ Connection: External lighting/monitor/PC
- ④ Connection cable
- ⑤ Fixing hole
- ⑥ Color display
- ⑦ Input keypad

CONNECTION TYPE



CONNECTION DIAGRAM



ADJUSTMENT POSSIBLE



- ⑥ Color display
- ⑦ Input keypad

Further information as well as suitable accessories, example applications and downloads such as CAD di-
mensional models, operating instructions and software can be found at www.sick.com/1027333



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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

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