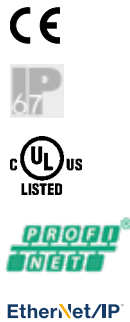


VISOR® V50 Robotic Professional, medium field of view

Vision sensor for object detection, presence check, completeness check, measurement and positioning tasks



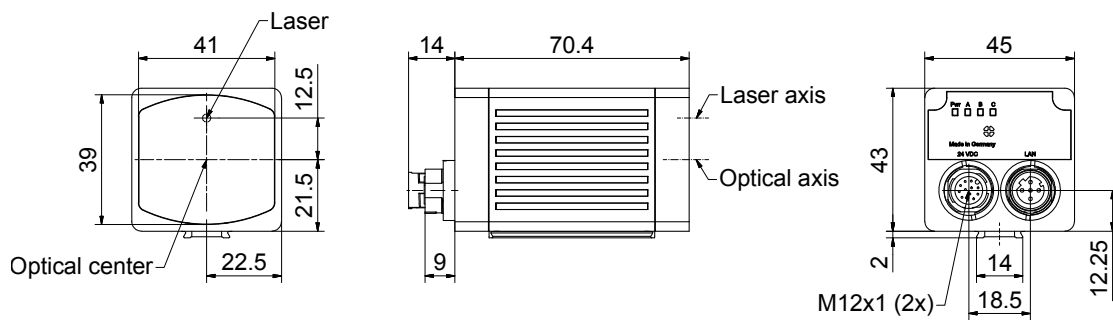
PRODUCT HIGHLIGHTS

- Calibration methods tailored to the application
- Result offset 3D for direct gripper point transmission to robot
- Easy adjustment of the work plane
- Target Mark technology provides 3D object poses in no time
- Can be used for all common 2D codes (ECC 200 data matrix) , common 1D barcodes and OCR

| Optical data | | Functions | |
|--|---|--------------------------------|--|
| Resolution | 2560 x 1936 Pixel | Number of jobs / detectors | Max. 255 / max. 255 |
| Imaging chip CMOS | 1/1.8", monochrome / color | Detectors | Position tracking; X/Y and orientation; |
| Integrated lens, focal length [mm] | 20 (medium) | | Pattern matching, contour, 3D contour: teach-in and detection of patterns and contours; |
| Pixel size | 2.8 µm x 2.8 µm | | Target Mark 3D: 3D pose determination; |
| Focus | Motorized | | Calliper: distance between edges; |
| Adjustment range | 100 mm to infinity | | BLOB, grey threshold, brightness: evaluation of brightness; |
| Integrated illumination | White (5000 K), red (635 nm) ¹ , infrared (850 nm) ¹ LEDs | | Contrast: evaluation of contrast; |
| Minimum field of view, X x Y | 32 x 24 mm | | Barcode: reading 1D barcodes; EAN, UPC, RSS, 2/5 Interleaved, 2/5 Industrial, code 32, code 39, code 93, code 128, ECC200 GS1, pharm code, codabar; |
| Target laser | Laser: red (635 nm) class 1 ⚠ (IEC 60825-1) | | Datacode: reading 2D codes: ECC200 (GS1), QR code (GS1), Micro QR code, Aztec code (GS1), PDF 417; |
| | | | OCR: reading of fonts; |
| | | | Result processing: Text, Math: checking and calculating with results from detectors |
| Electrical data | | Mechanical data | |
| Operating voltage, +U _B | 18 ... 30 DC ³ | Dimensions | 70.4 x 45 x 45 mm (without plug) |
| Current consumption (without I/O) | ≤ 300 mA | Enclosure rating | IP 67 & IP 65 |
| Protective circuits | Reverse-polarity protection, U _B / short-circuit protection of all outputs | Material, housing | Aluminium, die-cast, RoHS compliant |
| Power On Delay | Approx. 13 s after Power on | Material, front screen | Plastic |
| Outputs | PNP/NPN (switchable) | Ambient temperature: operation | 0 ... +50 °C ⁴ |
| Max. output current (per output) | 50 mA, 100 mA (pin 12) | Ambient temperature: storage | -20 ... +60 °C ⁴ |
| Switching threshold inputs incl. encoder | PNP / NPN | Weight | Approx. 200 g |
| Input resistance | High > U _B -1 V / Low < 3 V | Plug connections | Supply and I/O M12, 12-pin, Ethernet M12, 4-pin |
| Interfaces | Ethernet (LAN), EtherNet/IP, PROFINET, SensoWeb, Service Port | Vibration resistance | EN 60068-2-6 |
| Inputs/outputs | 2 inputs, 2 outputs, 6 selectable inputs/outputs | Shock resistance | EN 60068-2-27 |
| Encoder | ✓ | | |

¹ Not color hardware ² Color hardware ³ Max. ripple < 5 V_s ⁴ 80 % air humidity, noncondensing

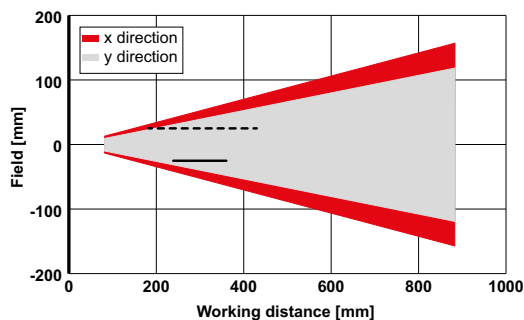
VISOR® vision sensor



153-13554

3

Field of view V50, medium



155-03559

Sold & Serviced By:



Toll Free Phone (877) SERV098

www.electromate.com

sales@electromate.com

----- Increased depth of field
 ——— Normal depth of field

| Illumination | Part number | Article number | Accessories | |
|--------------|---------------------|----------------|-----------------------|--|
| White | V50-RO-P3-W-M-M2-L | 635-91035 | Connection cables | www.sensopart.com/en/accessories |
| Red | V50-RO-P3-R-M-M2-L | 635-91037 | Illumination | |
| Infrared | V50-RO-P3-I-M-M2-L | 635-91039 | Brackets | |
| White | V50C-RO-P3-W-M-M2-L | 635-91042 | Interface accessories | |
| | | | Target Marks | |