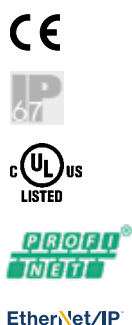


VISOR® V20 Object AI, Advanced, wide field of view

Vision sensor for object detection, presence and completeness checking, Position control and measurement tasks with robust AI technology for easy set-up



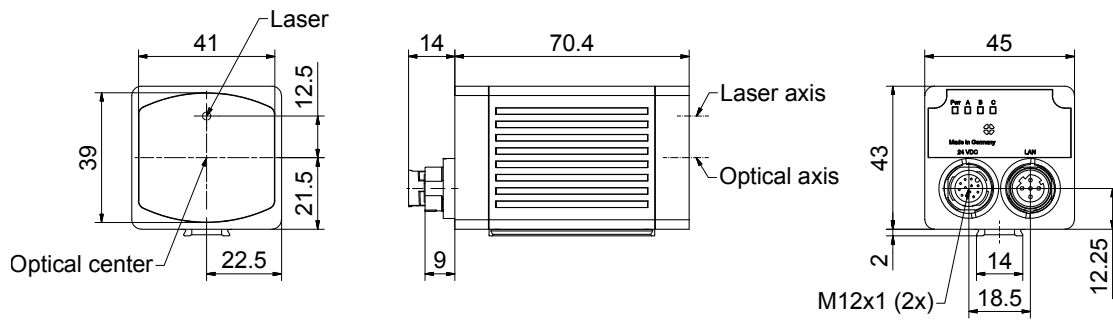
PRODUCT HIGHLIGHTS

- All function of the VISOR® Object Advanced
- "Classification (AI)" detector for user-friendly, robust classification and inspection tasks

Optical data		Functions	
Resolution	1440 x 1080 pixels	Number of jobs / detectors	Max. 255 / max. 255
Imaging chip CMOS	1/2.9", monochrome / color	Detectors	Position tracking: X/Y and orientation;
Integrated lens, focal length [mm]	6.5 (wide)		Pattern matching, contour: teach-in and detection of patterns and contours;
Pixel size	3.45 µm x 3.45 µm		Calliper: distance between edges;
Focus	Motorized		BLOB, grey threshold, brightness: evaluation of brightness;
Adjustment range	10 mm to infinity		Contrast: evaluation of contrast;
Integrated illumination	White (4500 K), red (625 nm) ¹ , infrared (850 nm) ¹ LEDs		Color value ² : output of color values;
Minimum field of view, X x Y	6 mm x 4 mm		Color area ² : area inspection of colors, with selectable tolerance;
Target laser	Laser: red (655 nm) class 1 ⚠ (IEC 60825-1)		Color list ² : finding the most similar colors;
			Result processing:
			- Math: checking and calculating with results from detectors;
			Classification (AI): classification of objects with AI technology;
Electrical data		Mechanical data	
Operating voltage, +U _B	18 ... 30 V DC ³	Dimensions	70.4 mm x 45 mm 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 High > U _B -1 V / Low < 3 V	Weight	Approx. 200 g
Input resistance	> 20 kΩ	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 < 5V_{ss} ⁴ 80 % air humidity, noncondensing

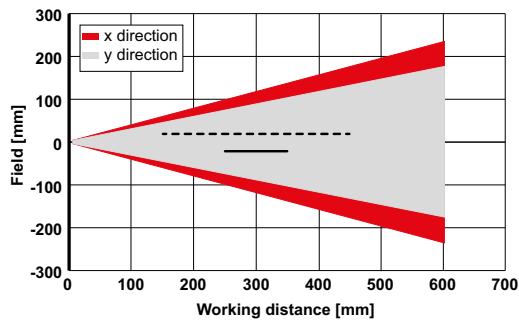
VISOR® vision sensor



153-13554

3

Field of view V20, wide



155-03279

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

Illumination	Part number	Article number	Accessories	
White	V20-OAI-A3-W-W-M2-L	632-91188	Connection cables	www.sensopart.com/en/accessories
Red	V20-OAI-A3-R-W-M2-L	632-91191	Illumination	
Infrared	V20-OAI-A3-I-W-M2-L	632-91193	Brackets	
White	V20C-OAI-A3-W-W-M2-L	632-91197	Interface accessories	