

# VISOR® V10 Object Standard, wide field of view

Vision sensor for object detection, simple presence and completeness checks

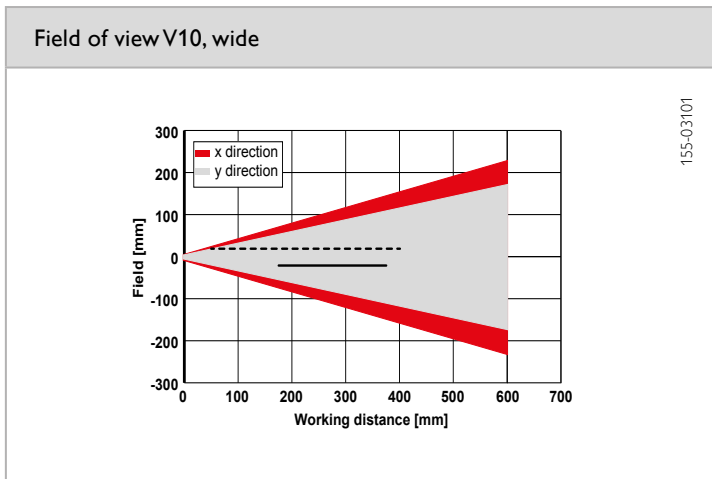
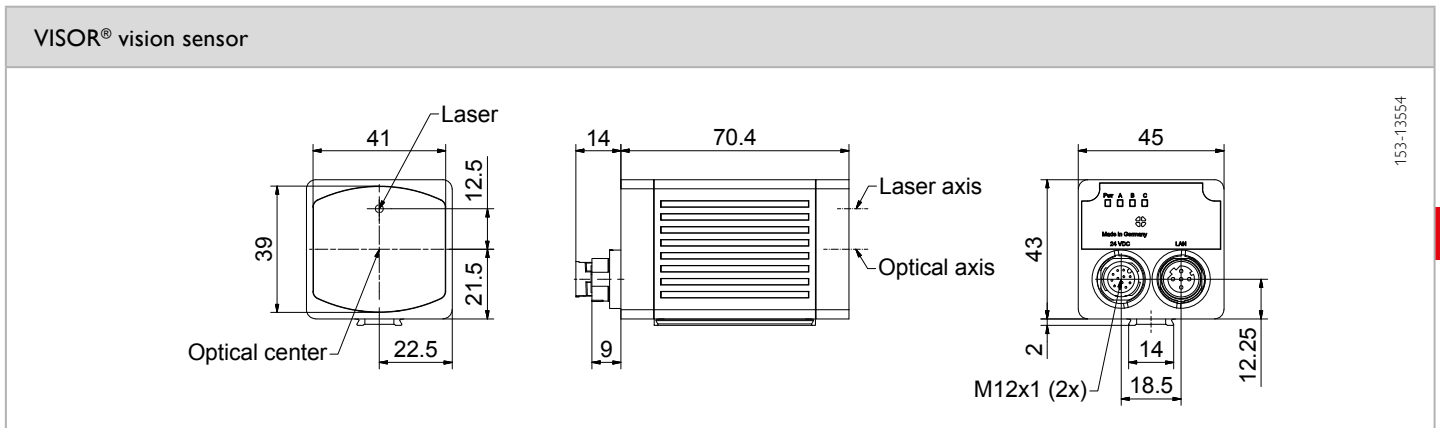


## PRODUCT HIGHLIGHTS

- User-friendly configuration and viewer software with hierarchical user rights
- Detectors for object detection
- Efficient part detection and tracking
- Precise position determination: X/Y-position and orientation
- Comprehensive logic functions for digital switching outputs

Optical data		Functions	
Resolution	800 × 600 pixels	Number of jobs / detectors	8 / 32
Imaging chip CMOS	1/3.6", monochrome / color	Detectors	Position tracking: X/Y and orientation; <b>Pattern matching , contour:</b> teach-in and detection of patterns and contours; <b>Calliper:</b> distance between edges; <b>Grey threshold, brightness:</b> evaluation of brightness;
Integrated lens, focal length [mm]	5.2 (wide)		<b>Contrast:</b> evaluation of contrast;
Pixel size	4.8 μm × 4.8 μm		<b>Color area</b> <sup>2</sup> : area inspection of colors, with selectable tolerance
Focus	Motorized		
Adjustment range	0 mm to infinity		
Integrated illumination	White (5000 K), red (635 nm) <sup>1</sup> , infrared (850 nm) <sup>1</sup> LEDs		
Minimum field of view, X × Y	2 × 1 mm		
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	18 ... 30 DC <sup>3</sup>	Dimensions	70,4 × 45 × 45 mm (without plug)
Current consumption (without I/O)	≤ 300 mA	Enclosure rating	IP 67 & IP 65
Protective circuits	Reverse-polarity protection, U <sub>B</sub> / 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 <sup>4</sup>
Max. output current (per output)	50 mA, 100 mA (pin 12)	Ambient temperature: storage	-20 ... +60 °C <sup>4</sup>
Switching threshold inputs incl. encoder	PNP/NPN High > U <sub>B</sub> -1V / Low < 3V	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	Vibration resistance	EN 60068-2-6
Inputs/outputs	2 inputs, 2 outputs, 4 selectable inputs/outputs	Shock resistance	EN 60068-2-27
Encoder	No		

<sup>1</sup> Not color hardware    <sup>2</sup> color hardware    <sup>3</sup> max. ripple < 5V<sub>SS</sub>    <sup>4</sup> 80 % air humidity, noncondensing



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

Illumination	Part number	Article number	Accessories	
White	V10-OB-S3-W-W-M2	631-91043	Connection cables	From Page A-46
Red	V10-OB-S3-R-W-M2	631-91045	Illumination	From Page A-33
Infrared	V10-OB-S3-I-W-M2	631-91047	Brackets	From Page A-4
White	V10C-OB-S3-W-W-M2	631-91049	Interface accessories	From Page A-53