


# VISOR® V20 Code Reader Standard, narrow field of view

Reading of 1D and 2D codes

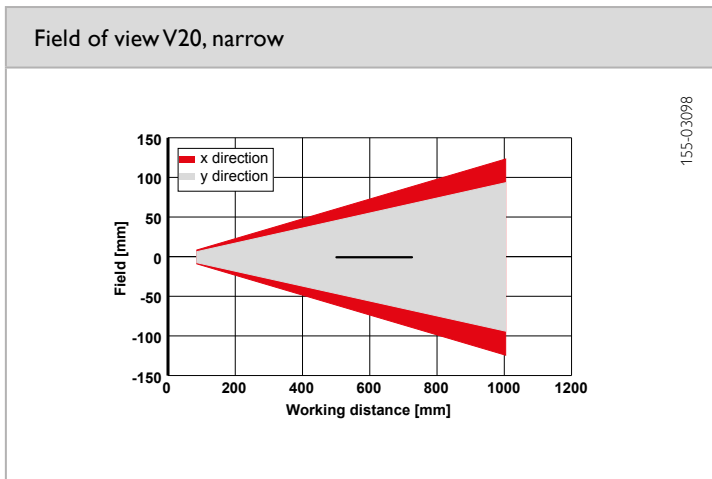
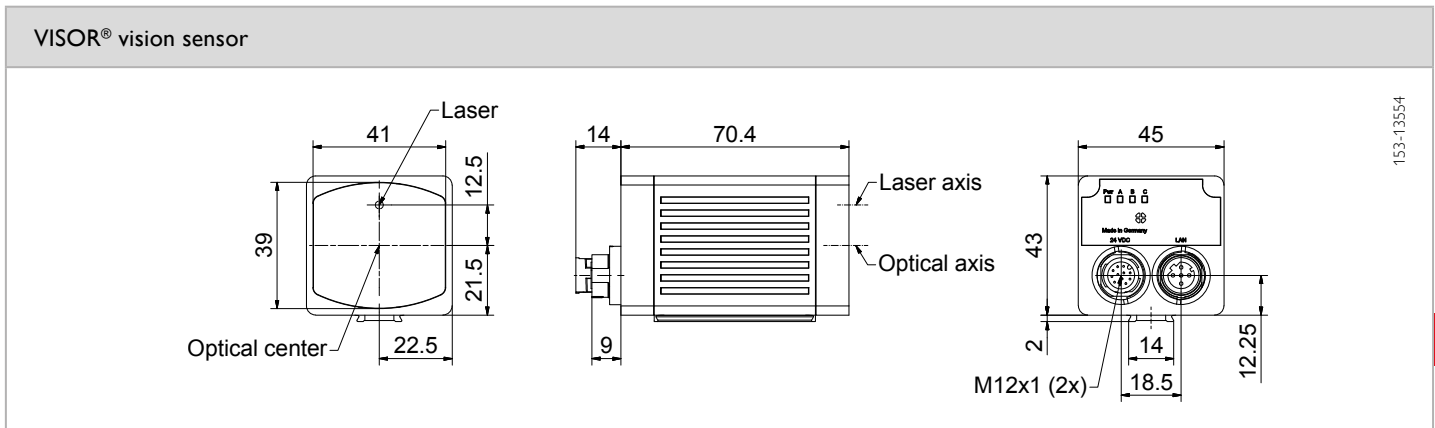


## PRODUCT HIGHLIGHTS

- Can be used for all common 2D codes (ECC 200 data matrix) and common 1D bar codes
- Comprehensive tools for flexible and easy connection to PC and PLC environments

Optical data		Functions	
Resolution	1440 × 1080 pixels	Number of jobs / detectors	8 / 2
Imaging chip CMOS	1/2.9", monochrome	Detectors	<b>Barcode:</b> reading of 1D barcodes: EAN, UPC, RSS, 2/5 Interleaved, 2/5 Industrial, Code 32, Code 39, Code 93, Code 128, GS1, Pharmacode, Codabar; <b>Data code:</b> reading of 2D barcodes: ECC200, QR-Code, PDF 417, ECC200 GS1
Integrated lens, focal length [mm]	20 (narrow)		
Pixel size	3.45 μm × 3.45 μm		
Focus	Motorized		
Adjustment range	100 mm to infinity		
Integrated illumination	White (5000 K), red (635 nm), infrared (850 nm) LEDs		
Minimum field of view, X × Y	18 × 14 mm		
Target laser	Laser: red (635 nm) class 1  (IEC 60825-1)		
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	18 ... 30 DC <sup>1</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>2</sup>
Max. output current (per output)	50 mA, 100 mA (pin 12)	Ambient temperature: storage	-20 ... +60 °C <sup>2</sup>
Switching threshold inputs incl. encoder	PNP/NPN High > U <sub>B</sub> -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 VISOR® V20-CR-Advanced	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	✓		

<sup>1</sup> Max. ripple < 5V<sub>SS</sub>    <sup>2</sup> 80 % air humidity, noncondensing



— Normal depth of field

illumination	Part number	Article number	Accessories	
White	V20-CR-S3-W-N-M2-L	632-91057	Connection cables	From Page A-38
Red	V20-CR-S3-R-N-M2-L	632-91060	Illumination	From Page A-27
Infrared	V20-CR-S3-I-N-M2-L	632-91063	Brackets	From Page A-4
			Interface accessories	From Page A-38