

V20C-ALL-P3-W-N-M2-L

Ordering information

Designation for ordering	V20C-ALL-P3-W-N-M2-L
Part number	632-91015
Order text	VISOR® V20 Allround Color, Professional, 255 jobs each with 255 detectors, white illumination, narrow field of view, motorized focus, LAN interface, target laser
Components supplied	VISOR® vision sensor, Operating manual, Mounting bracket (MK 45) and Allen key



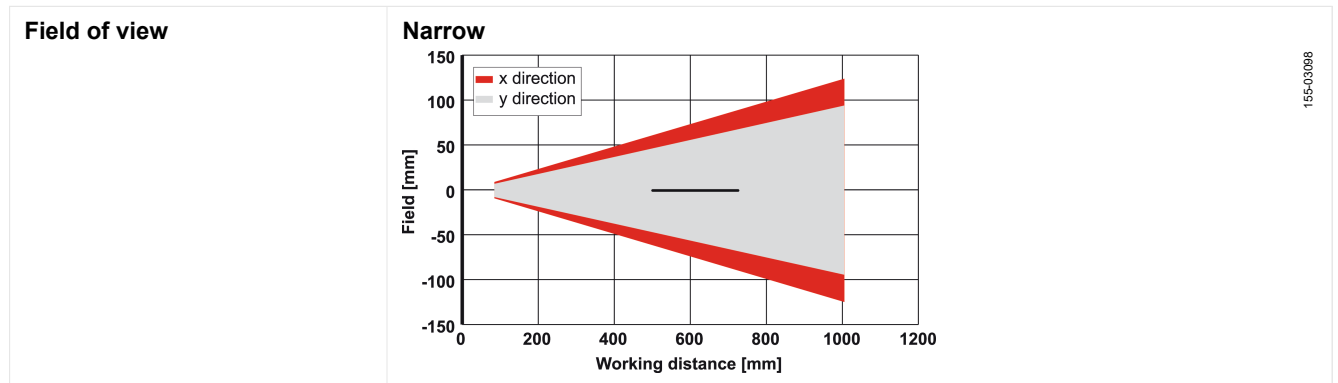
Optical data	
Image chip type	Color
Light source	LED
Light color	White
Wavelength [°K]	4500
LED risk category [RG]	1
Explanation of risk category	Acc. to EN 62471
Resolution	HDV2
Number of pixels (H x V) [px]	1440 x 1080
Imaging chip technology	CMOS
Sensor size ["]	1/2.9
Pixel size [µm]	3.45
Field of view type	Narrow
Operating distance [mm]	100 ... 10,000
Focal length [mm]	20.0
Opening angle [°]	12.0
Min. field of view (X x Y) [mm]	18 x 14
Aperture number	2.8
Depth of field	Standard
Focus drive	Motorized
Target laser	Laser red (655 nm)
Laser class	1 (IEC 60825-1)

Functions	
Hardware	VISOR®
Max. number of jobs	255
Max. number of detectors	255
Alignment	Contour comparison, Pattern matching, Edge detection
Available detectors	Pattern matching, Contour, Contour (3D), Contour check, BLOB, Target mark (3D), Data code, Barcode, OCR, Brightness, Contrast, Grayscale, Color value, Color area, Caliper, Classification (AI), Color list
Result processing	Text, Numbers, Robotics
Pre-processing	Arrangement, Filter
Calibration	Board (measurement), Board (robotics), Hand-Eye (robotics), Base-Eye (robotics), Scaling (measurement), Point pair list (robotics)
Robotic functions	Gripper clearance check, Result offset, image coordinates, Result offset 2D, Result offset 3D
Additional functions	Archiving, Image transmission, individual overlays, Multiple image acquisition, Color channel, color distance and binarization, Multiple detection for contour and pattern matching detector, Multiple detection for detector contour (3D), Job checksum, Conditional executions
Network protocol	TCP/IP, Profinet, EtherNet/IP, sFTP, SMB, FTP, Service Port

Electrical data	
Operating voltage U_B [V DC]	18 ... 30
Typical current draw [mA]	350
Type of voltage source	The device must be supplied by a "Class 2" power supply unit.
Readiness delay [ms]	≤ 16,000
Reverse polarity protection	Yes
Overvoltage protection	No
Residual ripple [%]	≤ 5 V _{ss} , level 3
Explanation of residual ripple	EN 61000-4-17
Polarity	PNP/NPN
Short circuit protection	Yes
Input threshold (High)	> $U_B - 1V$
Input threshold (Low)	< 3V
Input resistance [kΩ]	> 20
Max. output current [mA]	50
Explanation of max. output current	max. 100 mA on pin 12
Inductive loads	Typ.: Relay 17 K / 2 H, pneumatic valve 1.4 K / 190 mH
Max. output current (total) [mA]	200
Ethernet transmission rate [Mbit/s]	100
Number of switchable IOs	6
Number of outputs	2
Number of inputs	2
Encoder functions	Yes

Mechanical data	
Height [mm]	85.0
Length [mm]	45.0
Width [mm]	45.0
Weight [g]	~ 220
Front panel material	PMMA
Housing material	Aluminum (cast)
Connection name	Supply
- Number of pins	12
- Coding	A
- Thread	M12x1
- Material	Metal
- Type	Plug
Connection name	LAN
- Number of pins	4
- Coding	D
- Thread	M12x1
- Material	Metal
- Type	Socket
Ambient temperature: operation [°C]	0 ... 50
Explanation of ambient temperature: operation	< 95 % humidity, non-condensing
Ambient temperature: storage [°C]	-20 ... 60
Explanation of ambient temperature: storage	< 95 % humidity, non-condensing
Protection class	IP 65, IP 67
Explanation of protection class	For C-mount devices, only in combination with protective tube
Vibration and shock resistance	EN 60068-2-6, EN 60068-2-27

Technical drawings	
Dimensional drawing	 Technical drawings of the device showing three views: front, side, and top. The front view shows a square face with a laser axis and optical center. The side view shows the device's profile with a laser axis and optical axis. The top view shows the mounting holes and dimensions. 153-13554



Product link

<https://www.sensopart.com/en/products/details/632-91015>