

V20-CR-A3-I-N-M2-L

Ordering information

Designation for ordering V20-CR-A3-I-N-M2-L

Part number 632-91053

Order text VISOR® V20 Code Reader, Advanced, 255 jobs each with 255 detectors, infrared 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



EtherNet/IP™



Optical data	
Image chip type	Monochrome
Light source	LED
Light color	Infrared
Wavelength [nm]	850
LED risk category [RG]	0
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)

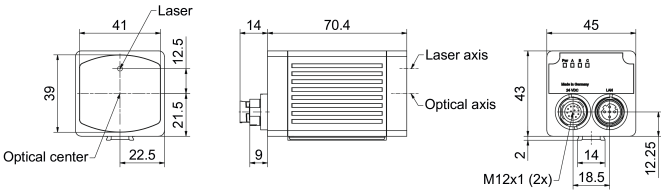
Functions	
Hardware	VISOR®
Max. number of jobs	255
Max. number of detectors	255
Alignment	-
Available detectors	Data code, Barcode
Result processing	Text
Pre-processing	Arrangement, Filter
Calibration	-
Robotic functions	-
Additional functions	Archiving, Image transmission, individual overlays, Multiple image acquisition, Job checksum
Network protocol	TCP/IP, Profinet, EtherNet/IP, sFTP, SMB, FTP, Service Port

Electrical data	
Operating voltage UB [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 Vss, level 3
Explanation of residual ripple	EN 61000-4-17
Polarity	PNP/NPN
Short circuit protection	Yes
Input threshold (High)	> UB-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

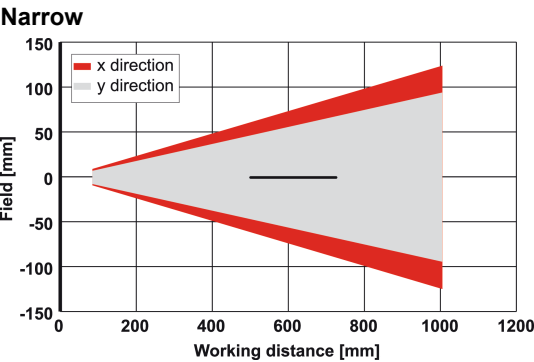
Technical drawings

Dimensional drawing



153-13554

Field of view



155-00098

Product link

<https://www.sensopart.com/en/products/details/632-91053>