VISOR® V10 Color

Advanced vision sensor for object detection, colour, 12 mm











EtherNet/IP

PRODUCT HIGHLIGHTS

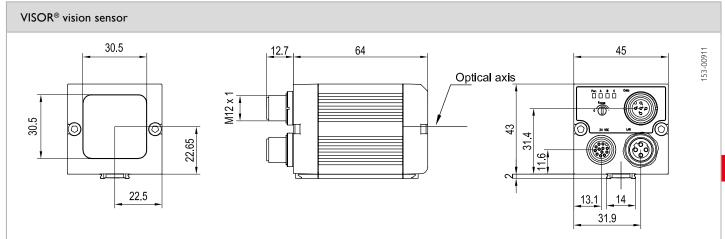
- Object detection in colour
- Reliable detection of very slight colour nuances or self-illuminating components
- · Powerful part finding and tracking
- User-friendly configuration and viewer software with hierarchical user rights
- Real-world engineering units and robot coordinates at a mouse click
- Encoder input

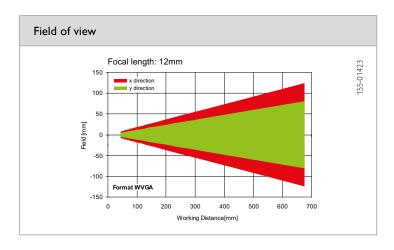
Optical data		Functions	
Resolution	736 × 480 pixels	Number of jobs / detectors	max. 255 / max. 255
CMOS	1/3", colour	Detectors	Contour, pattern comparison, calliper, BLOB, contrast, brightness, grey level,
Integrated lens, focal length	12 mm, adjustable focal position		
Adjustment range	30 mm to infinity		colour value, colour area, colour list
Integrated illumination	White LEDs	Properties	Position tracking: X/Y and orientation pattern comparison / contour:
Minimum field of view, X x Y	8 x 6 mm ²	Typical cycle times	teach-in and detection of patterns a contours; calliper: distance between edges; BLOB; grey threshold, brightness; contrast: evaluation of brightness; contrast: evaluation of contrast; colour area: two-dimensional colour inspection vadustable tolerance; colour list: finding the most similar colours Typ. 20 ms pattern comparison; typ. 30 contour; Typ. 8 ms calliper; typ. 30 ms
Electrical data		Mechanical data	BLOB; typ. 2 ms brightness; typ. 2 ms contrast; typ. 2 ms grey threshold; typ. ms colour value; typ. 30 ms colour are typ. 2 ms colour list
Operating voltage, +U _R	18 26.4 V DC ¹	Dimensions	$65 \times 45 \times 45$ mm (without plug)
Current consumption	≤ 120 mA	Enclosure rating	IP 67
(without illumination and I/O)		Material, housing	Aluminium, plastic
Current consumption (without I/O)	≤ 200 mA	Material, front screen	Plastic
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection of all outputs	Ambient temperature: operation	0 +50° C²
		Ambient temperature: storage	-20 +60° C²
Power On Delay	Approx. 13 s after Power on	Weight	Approx. 160 g
Outputs	PNP / NPN (switchable)	Plug connections	Supply and I/O M12, 12-pin Ethernet M12, 4-pin
Max. output current (per output)	50 mA, 100 mA (pin 12)		
Inputs	PNP/NPN High > U_B-1 V, Low < 3 V	V(1) 1:	Data M12, 5-pin
Input resistance	> 20 kOhm	Vibration and impact resistance	EN 60947-5-2
Encoder input Interfaces	High > 4 V Ethernet (LAN), RS422, RS232, EtherNet/IP, PROFINET. SensoWeb		
Inputs/outputs	2 inputs, 4 outputs, 4 selectable inputs/outputs		

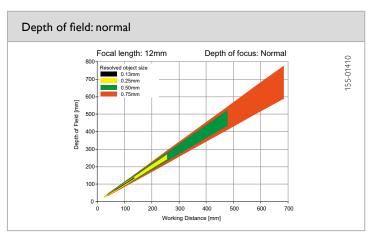
 $^{^{1}}$ Max, ripple \leq 5 $\rm V_{SS}$ $\,$ 2 80 % air humidity, non-condensing

Illumination	Depth of field	Part number	Article number
White	Normal	V10C-CO-A2-W12	535-91074









Accessories				
Connection cables	From Page A-38			
Illumination	From Page A-30			
Brackets	From Page A-14			
Interface accessories	From Page A-42			