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DATASENSING VISION SENSOR DATAVS2 PRO

DATAVS2-06REPRO
Vision Sensor, 6mm lens, PRO, Red LED

- 360º pattern recognition / Controls for Bar code, Datamatrix
- Memory for up to 20 different inspections
- 3 outputs
- R232 interface

PRODUCT DESCRIPTION

DataVS2 is a series of Vision sensors for flexible solutions for machine applications.
The sensor is complete with optics, red LED lighting and electronics in a compact housing. The parameters in the sensor are set via PC through Ethernet communication. The software comes with the sensor and is developed to lead the user step by step through parameter setting. DataVS2 is available in 4 different versions with different control instruments.
The PRO model - handles the functions in the Advanced and ID models.
It manages 360º pattern recognition and also bar code, datamatrix and OCV. It also has 5 new instruments: 3 locators (Bar code, Datamatrix and 360º contour matching)
2 controls: 360º contour counter, 360º defect finder

TECHNICAL DATA

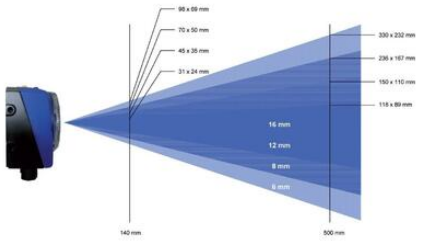
Digital interface	Ethernet 10/100 Mbs (4-pole M12 -connector)
Electrical connection	M12 4-pole D-coded, M12 8-pin connector
Frame rate	60
IP class	IP50
Lens material	ABS plastic
Material protection	Aluminium
Optics	6mm integrated lens
Output	3xPNP, RS232
Output current max	0.1 A
Power consumption max	0.1 A
Resolution	640x480 (VGA)
Temperature operational max	50 °C

Temperature operational min	-10 °C
Voltage dc max	24 V
Voltage dc min	24 V
Voltage tolerance	10%

The professional model includes in the same software all the functionalities already available on Advanced and Identification versions. Moreover it features 5 new software tools: 3 locators and 2 controls.

Locators	Functioning
Barcode	Finds a barcode in the Region Of Interest and re-locates all the other inspection controls accordingly.
Datamatrix	Finds a datamatrix code in the Region Of Interest and re-locates all the other inspection controls accordingly.
360° Contour Match	Finds a reference template in the Region Of Interest and re-locates all the other inspection controls accordingly.

Controls	Functioning
360° Contour Counter	Counts how many times a reference contour is present in the Region Of Interest.
360° Defect Finder	Detects even smallest defects on a part.



Step 1: Image Setup

The first step consists in connecting the sensor and configuring the image quality parameters. When the desired results are obtained, the user can memorise the image that will be used as a template during sensor functioning.

Step 2: Teach

The second step establishes the acceptance criteria to distinguish objects from wastes. One or more controls can be selected according to the task to carry-out.

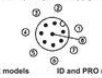
Step 3: Run

The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the PC only to control the diagnostics.

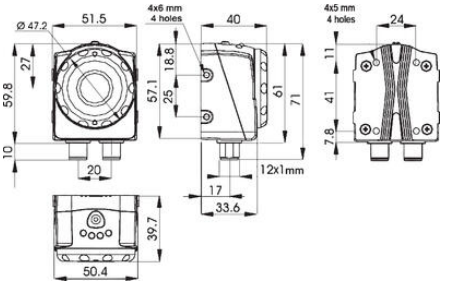
M12 4-pole Ethernet

1 = white/orange = RX+
2 = white/green = TX+
3 = orange = RX-
4 = green = TX-

M12 8-pole (power supply and I/O)



OBJ and AOR models	ID and PRO models
1 = white = digital input 1	1 = white = RS232 RX
2 = brown = 24 Vdc	2 = brown = 24 Vdc
3 = green = configurable output	3 = green = configurable output
4 = yellow = output 1	4 = yellow = output 1
5 = grey = output 2	5 = grey = output 2
6 = pink = output 3	6 = pink = RS232 TX
7 = blue = GND	7 = blue = GND
8 = red = external trigger	8 = red = external trigger



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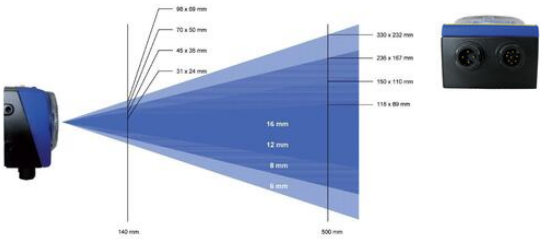

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