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DATASENSING VISION SENSOR DATAVS2 AOR

DATAVS2-12DEAOR
Vision Sensor, 12mm lens, ADV Object recognition, Red LED



- 360º pattern recognition
- 8 different controls
- Memory for up to 20 different inspections
- 4 outputs

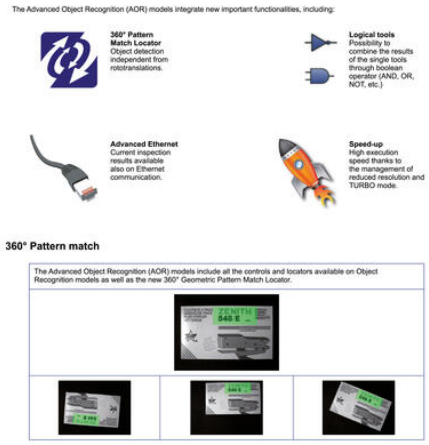
PRODUCT DESCRIPTION

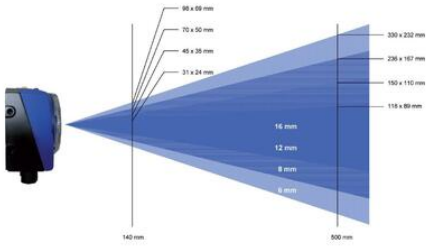
DataVS2 is a series of Vision sensors for flexible solutions for machine applications.
The sensor is complete with optics, red LED lighting and electronics in a compact housing. The parameters in the sensor are set via PC through Ethernet communication. The software comes with the sensor and is developed to lead the user step by step through parameter setting. DataVS2 is available in three different versions with different control instruments.
Advanced Object recognition AOR - Has a control instrument for 360º pattern recognition.
.Logic functions for that are connected between different control instruments and outputs such as: AND, OR, NOT, NAND, NOR etc.

TECHNICAL DATA

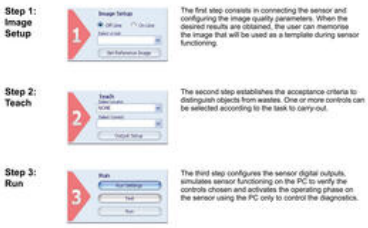
Digital interface	Ethernet 10/100 Mbs (4-pole M12 -connector)
Electrical connection	M12 4-pole D-coded, M12 8-pin connector
Frame rate	60
Image format	VGA mono
IP class	IP50
Lens material	ABS plastic
Lens type	12mm
Light type	Red LED
Material protection	Aluminium
Optics	12mm integrated lens
Output	4xPNP
Output current max	0.1 A
Power consumption max	0.1 A
Temperature operational max	50 °C

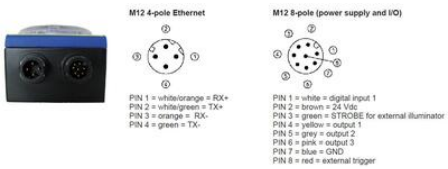
Temperature operational min	-10 °C
Type	Advanced object detection
User interface	DAVAVS GUI
Voltage dc max	24 V
Voltage dc min	24 V
Voltage tolerance	10%

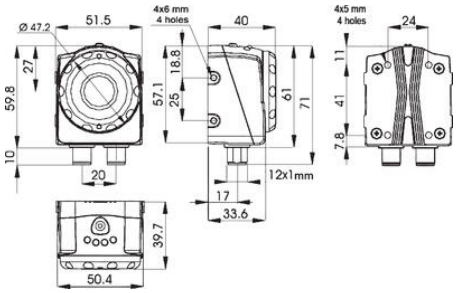


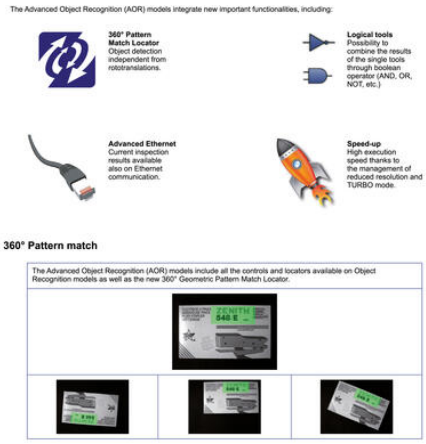


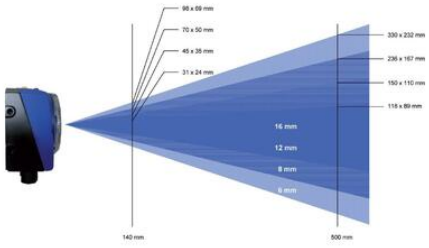
















M12 4-pole Ethernet



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

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



PIN 1 = white = digital input 1
PIN 2 = brown = 24 Vdc
PIN 3 = green = STROBE for external illuminator
PIN 4 = yellow = output 1
PIN 5 = grey = output 2
PIN 6 = pink = output 3
PIN 7 = blue = GND
PIN 8 = red = external trigger

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: Ruin



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.

