**OEM Automatic Ltd**
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

# DATASENSING VISION SENSOR DATAVS2 OBJ

DATAVS2-08DEOBJ
Vision Sensor, 8mm lens, Object recognition, Red LED




- 7 different controls
- Memory for up to 20 different inspections
- 4 outputs

### PRODUCT DESCRIPTION

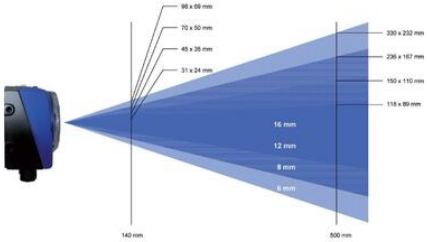
DataVS2 is a series of Vision sensors for flexible solutions for machine applications.
The sensor is complete with optics, red LED lighting and electronics in a compact housing. The parameters in the sensor are set via PC through Ethernet communication. The software comes with the sensor and is developed to lead the user step by step through parameter setting. DataVS2 is available in four different versions with different control instruments.
Object Recognition OBJ - Is the base model and compares parts against a basic image. It has 7 different control instruments to work with.

## 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** | 8mm 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 |
| **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**

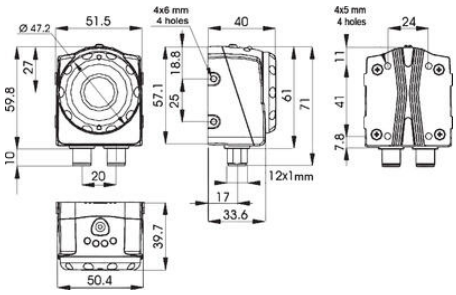


The second step establishes the acceptance criteria to distinguish objects from wastes. One or more controls can be selected according to the task to carry-out.

**Step 3: Ruin**

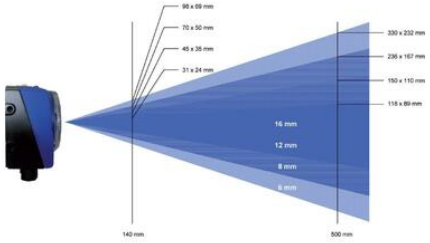


The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the PC only to control the diagnostics.










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