DATALOGIC - VISION SENSOR DATAVS2 REID

DATAVS2-06-REID
Vision Sensor, 6mm lens, ID, Red LED

- Controls for bar code, Datamatrix and OCV
- 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.
Identification ID - Reads bar codes, datamatrix and OCV.

Technical data

Supply voltage	24 V DC ±10 %
Ripple	1Vpp max. with lighting 2Vpp without lighting
Current consumption	100 mA at 24 VDC (without lighting)
Output type	3 PNP, 100 mA max.
	RS232
Resolution	640x480 (VGA)
Network interface	M12 4-pole Ethernet 10/100 Mbs
Interface external lighting	Strobe signal (24 V PNP N.O)
Frame rate	60 fps
optics	integrated (6 mm/8 mm/12 mm/16 mm)

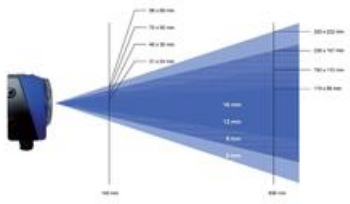
Indication	4 LED
Connection	M12 8-pole A-coded M12 4-pole D-coded
IP-class	IP50
Encapsulation material	Aluminium alloy/ABS
Weight	125 g
Working temperature	-10 to +50 °C
Storage temperature	-25 to +70 °C

Control instruments

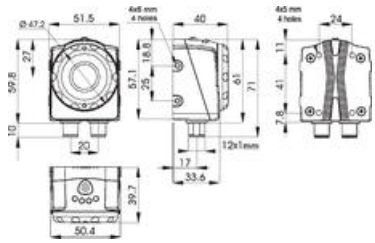
Read field

Read field

Working distance (mm)	**Read field (Width x Height) in mm**			
	DATAVS2-16-DE-xxx	**DATAVS2-12-DE-xxx**	**DATAVS2-08-DE-xxx**	**DATAVS2-06-DE-xxx**
50	-	17 x 12	25 x 20	42 x 30
80	-	25 x 20	40 x 30	60 x 41
110	-	33 x 25	55 x 40	80 x 55
140	31 x 24	45 x 35	70 x 50	98 x 69
170	39 x 29	53 x 38	85 x 60	118 x 83
200	46 x 34	60 x 50	100 x 70	138 x 92
300	70 x 53	90 x 65	145 x 103	201 x 140
400	94 x 71	121 x 82	186 x 132	265 x 189
500	118 x 89	150 x 110	236 x 167	330 x 232
600	143 x 107	185 x 130	282 x 232	385 x 270



Dimensions



Connection

Order number

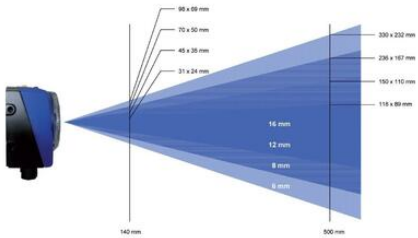
Order number	Description	Output
DATAVS2-06-REID	6 mm lens, ID	3 outputs, RS232
DATAVS2-08-REID	8 mm lens, ID	3 outputs, RS232
DATAVS2-12-REID	12 mm lens, ID	3 outputs, RS232
DATAVS2-16-REID	16 mm lens, ID	3 outputs, RS232
DATAVSCVRJ45D03	Ethernet cable 3m	

Download

Data sheet	Download
Manual	Download

Specifications

Frame Rate	60
Interface	Ethernet 10/100 Mbs (4-pole M12 -connector)
IP Class	IP50
Optics	6mm integrated lens
Output current max	0.1
Power consumption max	0.1
Temperature range from	-10
Temperature range to	50
Voltage DC max	24
Voltage DC min	24
Voltage Tolerance	10%



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

Step 1: Image Setup

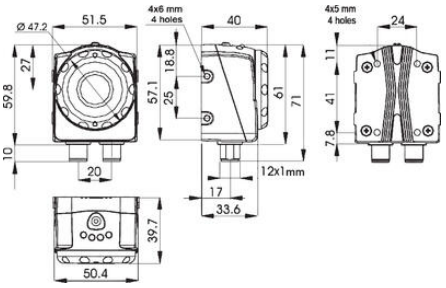
The first step consists in connecting the sensor and configuring the image quality parameters. When the desired results are obtained, the user can memorise the image that will be used as a template during sensor functioning.

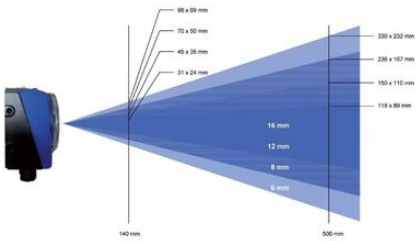
Step 2: Teach

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.





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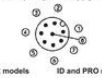

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