DATALOGIC SMART-VS

Smart sensor based on machine learning

SMART-VS-MR-5-150-WH-O
Smart VS standard, M12 connector, 150m, 3 digital output

- The first smart sensor based on Machine Learning
- Ease of use and installation
- Up to 150mm operating distance
- AI enabled and MLAS - Machine Learning Assisted Setting
- **PLUS version now available**

Product description

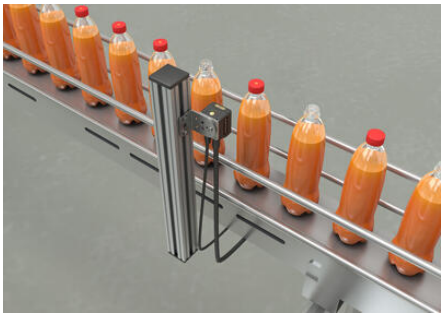
The Smart vision sensor or Smart-VS is a new, unique and innovative product from Datalogic. Designed for automation applications, it can quickly, easily and reliably detect 'good' and 'not good' objects.
The Smart VS can easily be set up by simply pushing a button and following 3 easy steps, ease of use for all kinds of users and installers. There is no expert programming needed, no vision tool setting, and no external custom monitoring tools necessary to achieve object detection.

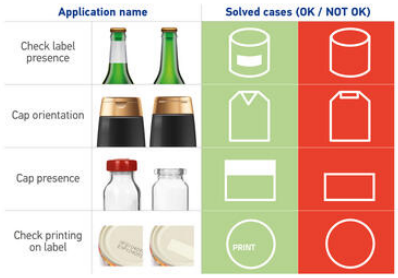
The Smart VS has a powerful 'System on Chip' and customised machine learning algorithms, making it reliable in response time which is deterministic in any detection condition. The features of the Smart VS make it the perfect solution for the following applications: the need to check the presence of labels and caps when filling bottles and vials; orientation of objects for proper labelling, independently by material, by color and format of the objects.

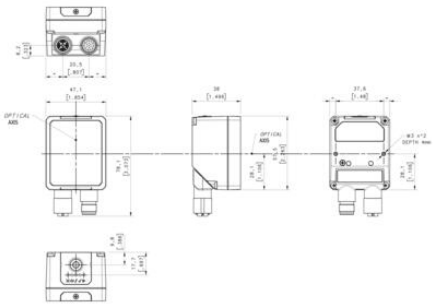
The versatility of the Smart VS makes it suitable for use in most varied sectors, such as automotive or automatic assembly of mechanical or electronic parts, but it also finds some it's greatest uses in the food and beverage, pharmaceutical and cosmetics packaging sectors.

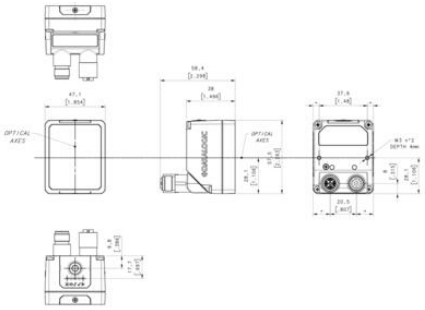
Specifications

Dimension (mm)	78 x 47 x 38
Distance Max	150
Distance Min	50
Integrated Communication Interface	Ethernet 10/100Mbit/s
IP Class	IP65, IP67
Light Type	White LED Polarised illuminator
Material	Aluminium
Max. images to handle	6 images
Output	NPN, PNP, Push/Pull
Output Data	Data valid, Good, No good
Performance	20pcs per second max
Power Consumption	4.2
Reading Field of View	22mm x 16mm @50mm, 55mm x 41mm @ 150mm
Resolution	320 x 240 pixels
Response time	50 ms
Supply voltage	10-30 V DC
Temperature range bearing, from	-20
Temperature range bearing, to	70
Temperature range from	-10
Temperature range to	50
Weight	173
Viewing angle	19°







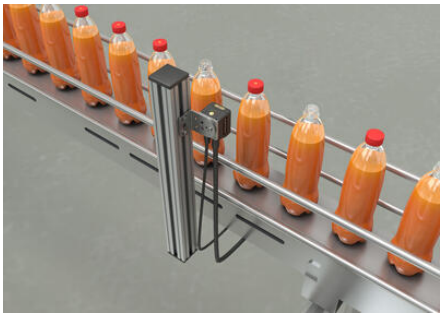


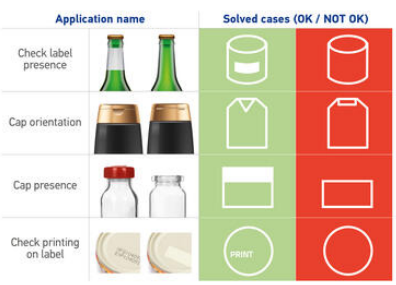
M12 17-pin Power, CDM, and I/O Connector Pinout

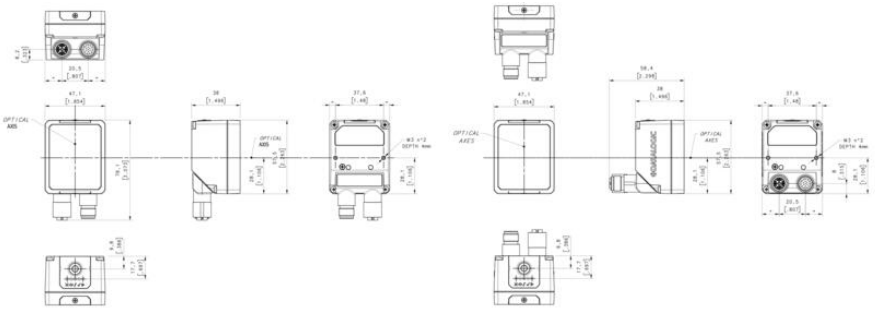
Pin	Nome	Colore	Funzione
1	Vdc	Marrone	Power supply input voltage +
2	GND	Blu	Power supply input voltage –
Connector case	Chassis		Connector case provides electrical connection to the chassis
6	I1A	Yellow	I1A Trigger Input A (Polarity Insensitive)
5	I1B	Pink	I1B Trigger Input B (Polarity Insensitive)
13	I2A	White/Green	I2A Remote Teach A (Polarity Insensitive)
3	I2B	White	I2B Remote Teach A (Polarity Insensitive)
9	O1*	Red	Data Valid PP
8	O2*	Grey	GOOD Output PP
16	O3*	Yellow/Brown	NO-GOOD Output PP

M12 8-pin Standard Ethernet Network Connector Pinout

Pin	Name	Function
1	TX+	Transmit data (positive pin)
2	TX-	Transmit data (negative pin)
3	RX+	Receive data (positive pin)
4	RX-	Receive data (negative pin)
5	nc	Not Connected
6	nc	Not Connected
7	nc	Not Connected
8	nc	Not Connected







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