



# SMART-VS

959970005

Smart-VS-PL-5-150-WH-O  
SMART-VS

## OVERVIEW

- Smart-VS<sup>+</sup> model available to handle more images and more connectivity features
- Machine Learning Assisted Setting
- No vision Tools programming required
- No need of skilled installers just photosensor like setting
- Deterministic response time 50 ms (Standard model -MR-)
- Deterministic response time 20 ms (PLUS model -PL- depending on n. of images)
- 50...150 mm detection distance
- TEACH Button and comprehensive UI with 5 status LEDs
- Electronic focus control

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	150mm
Sensitivity adjustment	Teach-in/Web Server GUI
Minimum sensing distance (blind zone)	50mm

### Application

Description	Compact block style case
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Optic position	Radial 90°
Functions	Object detection and positioning

### Outputs

Output type	NPN/PNP/PUSH PULL, Ethernet
Output Function	Data Valid / GOOD / NO GOOD
Switching frequency	$\geq 20\text{ms}$ (depending on number of learned images)
Response time	20 ms minimum (higher depending learned GOOD / NO GOOD images)

### Electrical data

Operating Voltage	10...30VDC
No-Load supply current	0.40 - 0.14 A
Load current	$\leq 100\text{mA}$
Leakage current	$\leq 300 \mu\text{A}$
Output voltage drop	100 mA
Max ripple content	$\leq 10\%$
LED indicators	green RUN / green GOOD / yellow TRIGGER / red NO GOOD
Emission	Illuminator LED white polarized + Red LED pointers + Green spot (Red LED / Green LED Dots)
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes

Power Consumption	0.40 - 0.14 A (4.2 W)
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Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
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Contact resistance	500 Vac 1 min., between electronics and housing
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#### Mechanical data

Connections	M12 plug
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Active Head Material	PMMA
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Storage temperature	- 25°C...+70°C
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shaft material	Rubber
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Diameter/Dimension	Cubic
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#### Test/Approvals

Approvals	CE CSS
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EMC compatibility	EN 60947-5-2
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Shocks and vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)
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#### Generical Data

CPU	Sistem On Chip
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Camera Interface	10/100 Mbit/s Ethernet
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Dimensions	47x58x38
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Operating Temperature	-10°C ... +50°C
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Mechanical Protection	IP67 / IP65
Resolution	320x240 pixels
Imager	1/3" CCD
Shutter	Rolling
Frame rate (FPS)	20

#### Optical Data

Mono/Color	Monochrome
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## **Datasensing S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

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