Image:

SMART-VS

959970009

Smart-VS-EV-5-400-WH-O-AA
**THE SMART SOLUTION FOR ALL PRESENCE,
ORIENTATION AND QUALITY VERIFICATION
APPLICATIONS IN INDUSTRIAL AUTOMATION**

OVERVIEW

AI-powered smart photoelectric sensor with machine learning algorithms.

- No vision tool programming required
- No need of machine vision skills
- Deterministic response time
- Reduced cost of ownership and maintenance
- Electronic focus control
- Up to 400mm operating distance
- Bright and visible Red LED pointer
- Powerful white polarized light illuminator
- Green/Red LED Spot for GOOD/NO-GOOD part
- Ethernet TCP/IP communication
- Easy and Intuitive WEB Server GUI for mai

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	400 mm
Sensitivity adjustment	TEACH-IN push button + WEB based GUI (through Ethernet)
Minimum sensing distance (blind	

zone)	50 mm

Application

Function Principle	Object detection classification 6 classes + Anomaly detection
Optic position	Radial 90°
Functions	Object detection classification 6 classes + Anomaly detection

Outputs

Output type	4 NPN/PNP/PP, 1 Ethernet 10/100 (M12 8-pin X-coded)
Response time	15…50 ms (deterministic classifier) 200 ms max (non det. anomaly)

Electrical data

Operating Voltage	10…30 Vdc
Leakage current	≤ 400 µA
Output voltage drop	100 mA
Max ripple content	≤10%
LED indicators	6 LED yellow (output, run, trigger, good, bad, not used) + 2 on back (1 blue power, 1 yellow Ethernet)
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED white 4 polarized white H.P. LEDs + 2 LED red aim + 1 LED green spot + 1 LED green spot
Interference to external light	according to EN 60947-5-2 : 2020

Impulsive Overvoltage Protection	Yes
Power Consumption	0.17…0.5 mA @30 V …10 V (5W) @30V…10V (5V)
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing

Mechanical data

Dimensions	47 x 58 x 38 mm
Housing Material	Metal - Aluminium / PMMA
Connections	M12 plug 8 pin
Active Head Material	PMMA
Storage temperature	- 25°C…+70°C
Material	PMMA
shaft material	Yellow rubber
Diameter/Dimension	Cubic

Test/Approvals

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

Generical Data

Dimensions	47 x 58 x 38 mm
Operating Temperature	-25…70°C
Mechanical Protection	IP67
Imager	50 (total anomaly), 50 (total classifier)