

PHOTOELECTRIC DEVICES FOR INSPECTION

SVS1 series

The quickest plug-and-play vision sensor

- Real embedded vision sensor
- Quick setup via VSC unit
- No PC needed
- Real time monitoring
- Single control inspection



NEW SERIES

The SVS1 series is the easiest solution for the machine vision applications. SVS1 relies on the concept of a completely embedded vision sensor. The setup is very quick and intuitive thanks to the VSC unit, the external configurator with 3.5" colour display and push-buttons. No PC is needed for the configuration. The image processing is completely carried-out inside the sensor, which is able to work in stand alone mode after the setup. The VSC unit can provide a real time monitoring of the images, but it is not required during the functioning of the sensor and so it can be disconnected and used to setup multiple sensors. SVS1 allows a single control on each image, but offers different kind of tools to solve several tasks: product orientation on conveyor belts, presence/absence on assembly lines, overprinting controls on packaging machineries.

SVS2 series

The sharpest stand alone vision sensor

- Flexible setup via PC
- Ethernet communication
- Object recognition or identification tools
- 360° pattern matching
- Multiple control inspections



NEW SERIES

The SVS2 series of vision sensors presents all the characteristics able to solve artificial machine vision problems in a flexible and intuitive manner. The setup of the SVS2 is carried-out on a PC using Ethernet connection, ensuring a high level of flexibility. A Graphic User Interface based on a Wizard system leads step by step the user in the creation of the inspection. Different models according to different software tools are available: Object Recognition, Advanced Object Recognition (with 360° pattern matching), Identification (Barcode, Datamatrix and OCV). The sensor can store up to 20 different inspections, that can be selected using digital pulses or via Ethernet. The sensor is able to contemporarily carry-out different controls on the same object, thus reducing installation time and costs compared to using more devices in the same application.

SCS1 series

One-for-all Smart Camera Sensor

- CMOS 640x480 image sensor
- Integrated or external illuminator
- Measurement, control and inspection
- Ethernet port and RS232 / RS485



NEW PERFORMANCES

The SCS1 Smart Camera offers all the functions of a vision system, together with the simplicity and costs of an advanced sensor. Multiple controls available: measurement, blob analysis, Pattern and Contour Match, circle locator. The illuminator can be integrated or external. The sensor can be configured via Host PC through the Ethernet port and works in a stand-alone mode. Two PNP outputs activated according to the inspection, configurable inputs and RS232 and RS485 serial interfaces are present on the standard M12 8-pole connector. The standard CS or C-mount optics are interchangeable.

SIL series

Illuminators for industrial artificial vision

- Linear, areolar, puntiform or backlight models
- Red, blue, green, white or IR light LED
- Resistant IP65 housing
- Laser visible red emission






NEW PERFORMANCES

The solid state SIL illuminators have been developed to offer a complete range of industrial lighting solutions for machine vision, illumination for bar code readers and visual checking and also lightening for microscopy. Many different SIL models are available including Line, Area, Back, Ring or Spot Light, able to cover all the main industrial lighting requirements. Red, blue, green, white or IR emission LEDs and lenses with different emission angles are available on demand. Furthermore, a new laser visible red emission version is available. Models with continuous or strobe light with a control unit also are available. The sturdy metal housing guarantees high mechanical protection, connection is fast and easy thanks to standard M8 4-pole connectors.

PHOTOELECTRIC DEVICES FOR INSPECTION



Smart Camera Sensors



SERIES		SCS1	
Category		Smart camera	
Resolution		640 x 480	
Frame per second		up to 150	
Illuminator		integrated or external via M8 conn.	
Connectivity		Ethernet	
Serial interface		RS232 / RS485	
Configuration		USEasy® PC GUI	
Functioning		stand-alone	
Lenses		C or CS-mount	
Functions		measurement and inspection	
TECHNICAL DATA	Power supply	Vdc	24  
		Vac	
		Vac/dc	
	Output	PNP	.
		NPN	
		NPN/PNP	
		relay (triac)	
		other	
	Connection	cable	
		connector	M12 8-poles / M8 4-poles / RJ45
terminal block			
Approximate dimensions (mm)		75 x 100 x 40	
Housing material		aluminium	
Mechanical protection		IP40	

Illuminators








SERIES		SIL	SIL	
Models		Line - Area - Ring - Spot - Back	Laser	
Driver		integrated or external	integrated	
Light source		power LED	Laser 650 nm	
Lenses		DATASENSOR Power Optics		
Light emission		red / green / blue / white / IR	red	
Emission angles		6° - 25° - 45° - 10x30°	60°	
Strobe signal		5...24 Vdc	0...30Vdc	
Light intensity at 500 mm		250...1000 lux		
Laser class			5 mW 	
TECHNICAL DATA	Power supply	Vdc	24	
		Vac		
		Vac/dc		
	Output	PNP		
		NPN		
		NPN/PNP		
		relay (triac)		
		other		
	Connection	cable	M8 4-poles	M12 4-poles
		connector		
	terminal block			
Approximate dimensions (mm)				
Housing material		aluminium	aluminium	
Mechanical protection		IP65	IP65	

PHOTOELECTRIC DEVICES FOR INSPECTION


Smart Vision Sensors



SERIES		SVS1	SVS2
Category		Vision Sensor	Vision Sensor
Resolution		640 x 480	640 x 480
Frame per second		up to 60	up to 60
Illuminator		integrated	integrated
Connectivity		configurator connection	Ethernet
Serial interface			RS 232
Configuration		VSC configurator	PC Graphic user interface
Functioning		stand-alone	stand-alone
Lenses		6/8/12/16 mm	6/8/12/16 mm
Functions		measurement & inspection	measurement & inspection or identification
TECHNICAL DATA	Power supply	24  	24  
	Output	.	.
	Connection	2x M12 8-poles	M12 8-poles / M12 4-poles
	Approximate dimensions (mm)	52 x 58 x 40	52 x 58 x 40
	Housing material	aluminium/plastic	aluminium/plastic
	Mechanical protection	IP50	IP50

Configurators and Monitors



SERIES		VSC	VSM
Display		3.5" TFT LCD	3.5" TFT LCD
Functions		SVS1 sensor setup real time monitoring	SVS2 sensor monitoring
Resolution		320x240	320x240
Mounting		DIN-Rail or panel	DIN-Rail or panel
User interface		8 push-buttons 8 signalling LEDs	8 push-buttons 8 signalling LEDs
TECHNICAL DATA	Power supply	Vdc	via SVS1 sensor
		Vac	
		Vac/dc	
	Output	PNP	
		NPN	
NPN/PNP relay (triac)			
other			
Connection	cable		
	connector	M12 8-poles	
	terminal block		
Approximate dimensions (mm)		96 x 96 x40	
Housing material		plastic	
Mechanical protection		IP40	
			24
			n°2 M12 8-poles
			96 x 96 x40
			plastic
			IP40