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Model Number

BIS510-60-WH-F200A

Sheet inspection sensor for monitoring print by comparing stored images or barcode evaluation

Features

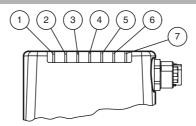
- Automatic learning of the reference image
- Automatic search for optimum image section
- · Integrated error image memory
- Integrated illumination
- Image and barcode recognition with 10 page/s and a maximum sheet speed of 4 m/s

Function

The sheet identification sensor from Pepperl+Fuchs enables fast and simple monitoring of the correct sheet sequence in collating, folding and binding machines. Sheets can be monitored either by using the image comparison method or reading in barcodes printed on the sheets.

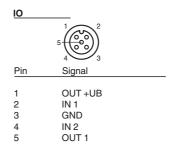
The device can be operated locally, as a stand-alone unit or in a network where several sensors are connected together. The sensor includes a camera, illumination unit and evaluating computer with digital input and output signals as well as a network interface.

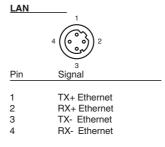
Indicating / Operating means

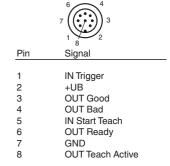


1	LED DIAG2	yellow	
2	LED DIAG1	yellow	
3	LED POWER	green	
4	LED TEACH	yellow	
5	LED BAD	yellow	
6	LED GOOD	yellow	
7	LED TRIGGER	yellow	

Electrical connection







24 V DC+IO

•	Technical data			
-	General specifications			
	Light type		Integrated LED lightning (white)	
	Symbologies		2/5 interleaved, Code13, Code39, Code128, Pharmacode	
	Object size		25 mm x 25 mm	
	Read distance		55 mm	
	Depth of focus		± 5 mm	
	Reading field		65 mm x 40 mm	
	Evaluation frequency		10 Hz	
	Target velocity		triggered ≤ 4 m/s	
1	Nominal ratings			
	Camera			
	Type		CMOS, Global shutter	
	Number of pixels		752 x 480 pixels	
	Gray scale		256	
	Image recording		real-time, Program-controlled or triggered externally	
I	ndicators/operating means			
	Operation indicator		LED green: Ready for operation	
	Control elements		2 x Button	
	LED indicator		Trigger, Good, Bad, Teach, Diag1, Diag2, PWR	
E	Electrical specifications			
	Operating voltage	U _B	24 V DC ± 15% , PELV	
	No-load supply current	I ₀	max. 250 mA	
	Power consumption	P ₀	6 W	
- 1	nterface 1			
-	Interface type		Ethernet	
	Protocol		TCP/IP	
	Transfer rate		100 MBit/s	
	Cable length		max. 30 m	
	nput			
_	Input voltage		to be applied externally 24 V ± 15% PELV	
	Number/Type		1 trigger input	
			1 teach input 2 input (IN1, IN2)	
	Input current		approx. 2 mA at 24 V DC	
	Switching threshold		low: < 10 V, high: > 15 V	
	Cable length		max. 30 m	
(Output			
	Number/Type		Teach active, Good, Bad, Ready	
	Switching type		PNP , short-circuit/overload protected	
	Switching voltage		to be applied externally 24 V ± 15 % PELV	
	Switching current		max. 100 mA each output	
	Cable length		max. 30 m	
-	Ambient conditions			
	Ambient temperature		0 45 °C (32 113 °F)	
	Storage temperature		-20 60 °C (-4 140 °F)	
	Relative humidity		80 % , noncondensing	
	Shock resistance		< 50 g	
	Vibration resistance		< 3 G , 11 200 Hz	
r	Mechanical specifications			
	Degree of protection		IP67	
	Connection		8-pin, M12x1 connector, standard (supply+IO) , 5-pin, M12x1 socket, standard (IO) , 4-pin, M12x1 socket, D-coded (LAN)	
	Material		. p, =	
	Housing		PC/ABS	
	Optical face		Plastic pane	
	Installation		4 x M6 threading	
	Mass		approx. 160 g	
Compliance with standards and directives				
	Standard conformity			
	Noise immunity		EN 61326-1	
	Emitted interference		EN 61000-6-4	
	Degree of protection		EN 60529	
	Laser class		IEC 60825-1:2007	

Accessories

V19-G-ABG-PG9

Female connector, M12, 8-pin, shielded, field attachable

V19-G-2M-PUR-ABG

Female cordset, M12, 8-pin, shielded, PUR cable

V19-G-5M-PUR-ABG

Female cordset, M12, 8-pin, shielded, PUR cable

V1S-G

Male cordset, M12, 4-pin, field attachable

V1SD-G-2M-PUR-ABG-V45X-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V1SD-G-2M-PUR-ABG-V45-G

Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

V15-G-2M-PUR

Female cordset, M12, 5-pin, PUR cable

V15-G-5M-PUR

Female cordset, M12, 5-pin, PUR cable

V15-G-2M-PUR-V15-G

Connecting cable, M12 to M12, PUR cable 5-pin

V15S-G-5M-PUR-ABG

Male cordset, M12, 5-pin, shielded, PUR cable

BIS-VISUALIZER

User-Interface "BIS-Visualizer" for image display and basic parameters of the BIS devices

PCV-MB1

Mounting bracket for PCV* read head

Additional accessories can be found in the Internet.

FPEPPERL+FUCHS

Dimensions

