

CE

Model Number

BIS510-60-WH-F200A

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

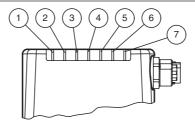
Features

- Automatic learning of the reference ٠ 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

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.

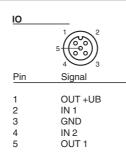
The device can be operated locally, as a stand-alone unit or in a network where several sensors are connected together. The sensor includes a camera, illumination unit and evaluating computer with digital input and output signals as well as a network interface.

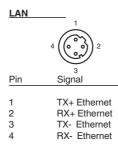
Indicating / Operating means



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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			
Pin	Signal		
1	IN Trigger		
2	+UB		
3	OUT Good		
4	OUT Bad		
5	IN Start Teach		
6	OUT Ready		
7	GND		
8	OUT Teach Active		

Pepperl+Fuchs Group

www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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Technical data

General specifications Light type Symbologies Object size Read distance Depth of focus Reading field Evaluation frequency Target velocity Nominal ratings Camera Type Number of pixels Gray scale

Image recording Indicators/operating means Operation indicator Control elements LED indicator

Electrical specifications Operating voltage

No-load supply current Power consumption Interface 1 Interface type

Protocol Transfer rate Cable length

Input

Input voltage Number/Type

Input current Switching threshold Cable length Output

Number/Type Switching type Switching voltage Switching current Cable length

Ambient conditions Ambient temperature

Storage temperature Relative humidity Shock resistance Vibration resistance

Mechanical specifications

Degree of protection Connection

Material Housina

Optical face Installation Mass

Compliance with standards and directives

Standard conformity

Noise immunity Emitted interference Degree of protection Laser class

Integrated LED lightning (white) 2/5 interleaved, Code13, Code39, Code128, Pharmacode 25 mm x 25 mm 55 mm ± 5 mm 65 mm x 40 mm 10 Hz triggered $\leq 4 \text{ m/s}$

CMOS, Global shutter 752 x 480 pixels 256 real-time, Program-controlled or triggered externally

LED green: Ready for operation 2 x Button Trigger, Good, Bad, Teach, Diag1, Diag2, PWR

24 V DC ± 15% , PELV max. 250 mA 6 W

Ethernet TCP/IP 100 MBit/s max. 30 m

UB

 I_0

 P_0

to be applied externally 24 V ± 15% PELV 1 trigger input 1 teach input 2 input (IN1, IN2) approx. 2 mA at 24 V DC low: < 10 V, high: > 15 V max. 30 m

Teach active, Good, Bad, Ready PNP, short-circuit/overload protected to be applied externally 24 V \pm 15 % PELV max. 100 mA each output max. 30 m

0 ... 45 °C (32 ... 113 °F) -20 ... 60 °C (-4 ... 140 °F) 80 % , noncondensing < 50 g < 3 G , 11 ... 200 Hz

IP67 8-pin, M12x1 connector, standard (supply+IO) , 5-pin, M12x1 socket, standard (IO) 4-pin, M12x1 socket, D-coded (LAN)

PC/ABS Plastic pane 4 x M6 threading approx. 160 g

EN 61326-1 EN 61000-6-4 EN 60529 IEC 60825-1:2007

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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

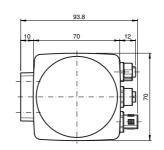
Additional accessories can be found in the Internet

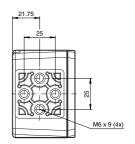
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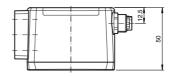


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Dimensions







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