

# CE

### **Model Number**

#### BIS550-60-WH-F200-4719

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

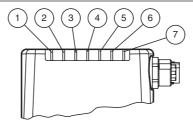
## Features

- Image and barcode detection at 10 ٠ sheets/s
- Automatic learning of the reference image
- Automatic search for optimum image section
- Integrated error image memory ٠
- Integrated illumination •

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.

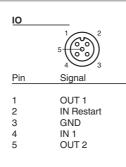
The device can be operated locally, as a stand-alone unit or in a network where several sensors are connected together. The sensor includes a camera, illumination unit and evaluating computer with digital input and output signals as well as a network interface.

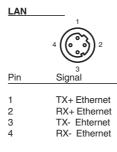
# Indicating / Operating means



_		
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**





ı	Signal
	IN Trigger +UB OUT Error OUT Compare Failed

24 V DC + IO

Pir

1

2 3

4

5

6

7 8

IN Start IN Encoder GND

OUT Learn

Release date: 2013-10-24 07:30 Date of issue: 2013-10-24 222827\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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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 Protection degree Connection

#### Material

Material Housing Optical face Installation Mass Compliance with standards and directives Standard conformity Noise immunity

Noise immunity	
Emitted interference	
Protection degree	
Laser class	

Integrated LED lightning (white) 2/5 interleaved, Code128, Pharmacode 25 mm x 25 mm 55 mm  $\pm 5 \text{ mm}$  65 mm x 40 mm 10 Hztriggered  $\leq 6 \text{ m/s}$ 

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

LED green: Ready for operation none Trigger, Good, Bad, Ready, Diag1, Diag2

24 V DC ± 15% , PELV max. 250 mA 6 W

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

 $\mathsf{U}_\mathsf{B}$ 

 $I_0$ 

 $P_0$ 

to be applied externally  $24 V \pm 15\%$  PELV Trigger, Start, Encoder, Restart approx. 2 mA at 24 V DClow: < 10 V, high: > 15 V max. 30 m

Error Stop, Compare Failed, Learn PNP, short-circuit/overload protected to be applied externally 24 V ± 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) , M12 x 1 female connector, 5-pin, standard (IO) , 4-pin, M12x1 socket, standard (LAN)

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

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

#### Accessories

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

V19-G-ABG-PG9 Female connector, M12, 8-pin, shielded, field attachable

V15-G-2M-PUR-V15-G Connecting cable, M12 to M12, PUR cable 5-pin

V19-G-2M-PUR-ABG Female cordset, M12, 8-pin, shielded, PUR cable

V15S-G-5M-PUR-ABG Male cordset, M12, 5-pin, shielded, PUR cable

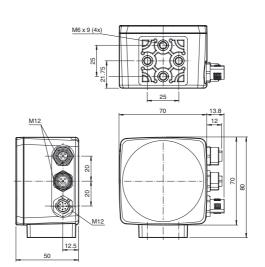
PCV-MB1 Mounting bracket for PCV\* read head

Additional accessories can be found in the Internet.

Pepperl+Fuchs Group www.pepperl-fuchs.com



## Dimensions



Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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