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# **Model Number**

# VOS412-BIS-60-WH-F119-4971

Sheet inspection sensor for monitoring print by comparing stored images or barcode evaluation, right angle version

#### **Features**

- Automatic learning of the reference image
- Automatic search for optimum image section
- Integrated error image memory
- Integrated illumination
- Reliable detection at object speeds up to 4 m/s

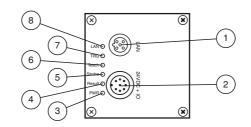
# **Function**

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.

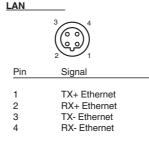
- Typical areas of application are:
  Printing machines
- Folding machines
- Tying machines

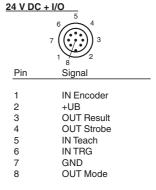
# **Indicating / Operating means**



1	Socket LAN	
2	Plug 24VDC + IO	
3	Power	green
4	Result	green
5	Stobe	yellow
6	Teach	yellow
7	Trigger	yellow
8	LAN	yellow

# **Electrical connection**





Compliance with standards and directi-

ves

Standard conformity Standards

**Dimensions** 

#### **Technical data General specifications** Integrated LED lightning (white) Light type Object size 25 mm x 25 mm Read distance 60 mm Depth of focus ± 5 mm Reading field 75 mm x 45 mm **Evaluation frequency** 7 Hz Target velocity triggered ≤ 4 m/s Indicators/operating means LED green: Ready for operation Operating display **Electrical specifications** 24 V DC ± 20 % Operating voltage $U_{\mathsf{B}}$ No-load supply current max. 250 mA $I_0$ Power consumption $P_0$ 6 W Interface 1 Interface type Ethernet Protocol TCP/IP 100 MBit/s Transfer rate Cable length max. 30 m Input to be applied externally 24 V $\pm$ 15% PELV Input voltage Number/Type Input current approx. 3.5 mA at 24 V DC Cable length max. 30 m Output Number/Type 3 electronic outputs, PNP optically decoupled Switching type PNP optically decoupled, short-circuit/overload protected Switching voltage 24 V Switching current max. 100 mA each output Cable length max. 30 m **Ambient conditions** 0 ... 45 °C (32 ... 113 °F) Ambient temperature Storage temperature -20 ... 60 °C (-4 ... 140 °F) Mechanical specifications Protection degree IP65 Connection M12 connector, 8-pin, 4-pin M12 socket Material Housing powder coated diecast zinc Optical face glass pane Installation 2 x Threading M5 approx. 730 g

#### **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

Cable socket, M12, 8-pin, shielded, non pre-wired

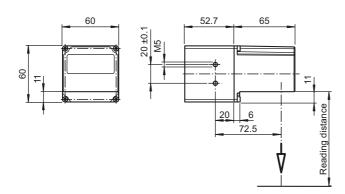
#### V19-G-2M-PUR-ABG

Cable socket, M12, 8-pin, shielded, PUR cable

# **BIS-VISUALIZER**

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

Other suitable accessories can be found at www.pepperl-fuchs.com



EN 61326-1