Searches and decodes the contents of one or more QR symbols

COMMUNICATIONS

Communication with the sensor occurs via the Ethernet network.

Direct connection: personal computer is connected directly to device using a "cross-cable".

Through LAN: use common network (non-cross) cables normally used to connect devices to routing hubs.

Warning: in case of direct connection the PC requires a fixed IP address.

The sensor has the following default IP address:

IP Address: 172.27.101.208
Subnet mask: 255.255.0.0

HARDWARE CONNECTIONS

M12 8 Poles (Power and I/O)

Note: It is not permitted to disconnect the cable at the connector Power and I/O while it is under power.

Power:
- Voltage: 24 VDC ± 10%
- Current: 200 mA max

Input:
- Input ON: > 20 VDC
- Input OFF: < 2 VDC

Outputs:
- 3 PNP outputs (short circuit protection) (Output 4 is configurable as External Illuminator Strobe)

Output current:
- max 200 mA at 24 VDC

Current draw with illuminator:
- max 200 mA at 24 VDC

(depends on how long illuminator stays on)

Voltages:
- 14 mm @ 2 to 10 kHz (EN60068-2-6)
- 1.5 mm @ 13 to 50 kHz

2 hours on each axis

Shock resistance:
- 11 ms (30 G) 6 shock for every axis

Electrical isolation:
- 2000Vrms

Dimensions: 69.8 x 51.5 x 40 mm

Weight: 125 g

VISOR INTERFACE

Quick reference guide

Minimum system requirements

Check that your Personal Computer meets the following minimum requirements for system interfacing:
- Pentium 1.7 GHz processor
- 1 GB of RAM
- Monitor SVGA (1024x768 pixel)
- Network connection 10/100 Mbps
- 50 MB Hard Disk drive free space

For best performances the following requirements are recommended:
- Pentium 2 GHz processor
- 2 GB of RAM
- Monitor resolution 1280x768 at least
- Network connection board 10/100 Mbps Ethernet
- 60 MB Hard Disk drive free space

Description

The DataVS2 series of vision sensors offers the easiest way to solve the most common machine vision applications.

- Compact IP50 housing
- Red light LED illuminator
- Selectable lens
- Focus ring
- Standard M12 connectors
- Teach button
- Image sensor 640x480 pixel

Electric connections

M12 4 poles Ethernet: (connectivity)
- pin 1: White/Orange: Rx-
- pin 2: brown: 24 VDC
- pin 3: Orange: Rx+
- pin 4: Green:Tx-

M12 8 poles: (power and I/O)
- pin 1: white: RS-232 Rx
- pin 2: brown: 24 VDC
- pin 3: green: Output 4 / Ext. Illuminator Strobe
- pin 4: yellow: Output 1
- pin 5: grey: Output 2
- pin 6: pink: RS-232 Tx
- pin 7: blue: Ground
- pin 8: red: External Trigger

INDICATORS

1. Power, green;
2. Output 1, orange;
3. Output 2, orange;

Control panel

Functioning

Applications

Pattern Match
- Searches for a pattern inside the target area

Position
- Identifies the object position (edge detection)
- Controls the level of sensitivity to energy within the patterns

OCV
- Checks presence and characters on parts
- Verifies presence of print labels

Barcode
- Searches and decodes the contents of one or more barcode symbols
- Identification

Datamatrix
- Searches and decodes the contents of one or more Datamatrix symbols
- Identification

POWER SUPPLY

Supply voltage (Vs): 24 Vdc ± 10%

Ripple voltage: 1 Vpp max with illuminator

Current draw with illuminator:
- max 200 mA at 24 VDC

(Variation of how long illuminator stays on)

Rolling voltage: 1 Vpp max

Resolution: 640 × 480 (VGA)

Bandwidth: 25 ~ 75 kHz

Vibrations:
- 2 hours on each axis

Shock resistance:
- 11 ms (30 G) 6 shock for every axis

Data retention:
- Non-volatile FLASH memory

HARDWARE CONNECTIONS

M12 8 poles A-code, M12 4 pole B-code

Weight:
- 125 g