

# IVU2PTGX06 Vision Systems – Grayscale Image Sensor



### Technical data

| Туре                         | IVU2PTGX06   |
|------------------------------|--|
| ID                           | 3090770  |
| Camera data                  |  |
| Function                     | Gray value   |
| Resolution                   | 752 x 480 Pixels                                       |
| Brennweite                   | 6 mm   |
| Special features             | Wash down  |
| Electrical data              |  |
| Operating voltage            | 1030 VDC   |
| DC rated operational current | ≤ 1000 mA  |
| Communication protocol       | EtherNet/IP<br>Modbus TCP<br>PCCC<br>PROFINET<br>RS232 |
| Mechanical data              |  |
| Design                       | Rectangular, iVu PLUS                                  |
| Dimensions                   | 51.5 x 81.2 x 95.3 mm                                  |
| Housing material             | Plastic, Thermoplastic material, Black                 |
| Window material              | Acrylic, clear   |
| Electrical connection        | Connector, M12 × 1, 12-wire                            |
| Display                      | Integriert   |
| Ambient temperature          | 0+50 °C  |
| Protection class             | IP67   |
| Tests/approvals              |  |
| Approvals                    | CE   |



### Features

- Second iVu generation
- Internal memory for 30 inspections
- 1/3" CMOS, 752x480 pixels
- Without integrated ring light
- Protection class IP67
- External strobe output + 5 VDC
- External trigger input
- Lens, 6mm, M12x1
- Display: Integrated 65.5 mm LCD color display, 320 x 240 transreflective
- Operating voltage 10...30 VDC
- M12 x 1 male, 12-pin
- Three PNP/NPN switching outputs, selectable via software
- USB 2.0 host: M8 female, 4-pin
- Ethernet via M8 x 1 male, 4-pin
- Industrial Ethernet: PROFINET, Ether-Net/IP, Modbus/TCP, PCCC

# Wiring diagram

| _   | 1 WH        | Output 1              |
|-----|-------------|-----------------------|
| 2   | 2 BN        | 1030 VDC              |
|     | 3 GN        | Output 2              |
| E   | 4 YE        | Strobe out 5 VDC only |
|     | 5 GY        | Remote teach          |
|     | 6 PK        | Ext. trigger          |
|     | 7 BU        | Common                |
|     | 8 RD        | Ready                 |
|     | 9 OG        | Output 3              |
|     | 10 BU light | RS-232 TX             |
| E   | 11 BK       | RS-232 signal ground  |
|     | 12 VT       | RS-232 RX             |
| - 7 |             |                       |

# Functional principle

The second generation of the iVu-Plus offers the user advanced features and even more options in the selection of the inspections. The sensor is equipped with the same housing and



offers the same intuitive user interface and functionality of the previous iVu generation. Sensor with 3 integrated operating modes:

 Pattern recognition, checks if a pattern on a target is identical to the reference pattern.
Blob detection, for identification of one or more object features.

3. Feature detection with positioning, which adapts to the movements.

A blanking function for blob and feature detection is available in the new generation, so that areas in the field of view can be switched blind. Sensor configuration via PC is not required!

Storage for 30 inspections.

#### Mounting instructions

Mounting instructions/Description



#### Accessories

#### SMBIVURAR

SMBIVUU



3082549 U-bracket for base mounting (incl. SMBIVUB baseplate)

Brackets for mounting on right side

3082547

# 36.4 0 4.4 0 22.5 1/4-20

SMBIVURAL

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Selecting the focal length

With known object size or scan field the matching vision sensor is found simply by determining the ratio between the sensing range and the focal length. Use the graphics for selection. Here, the sensing ranges are put in relation to the field view and the lens focal length.

3082546 Brackets for mounting on left side

