IVU2PTGR08
Vision Systems –   Grayscale Image Sensor

Technical data

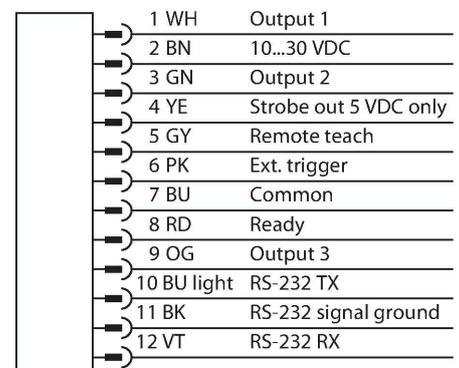| Type	IVU2PTGR08
ID	3090735
Camera data	
Function	Gray value
Resolution	752 x 480 Pixels
Light type	Red
Brennweite	8 mm
Special features	Wash down
Electrical data	
Operating voltage	10…30 VDC
DC rated operational current	≤ 1000 mA
Communication protocol	EtherNet/IP Modbus TCP PCCC PROFINET RS232
Mechanical 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
- Integrated ring light: Red
- Protection class IP67
- External strobe output + 5 VDC
- External trigger input
- Lens, 8mm, 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, EtherNet/IP, Modbus/TCP, PCCC

Wiring diagram

1 WH	Output 1	
2 BN	10...30 VDC	
3 GN	Output 2	
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	
11 BK	RS-232 signal ground	
12 VT	RS-232 RX	

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:
1. Pattern recognition, checks if a pattern on a target is identical to the reference pattern.
2. 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
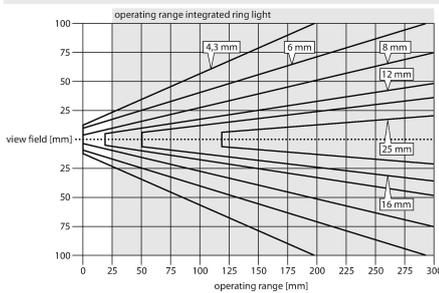
Selecting the focal length
With known object size or scan field the matching vision sensor is found simply by determining the ratio between the sensing range and the focal length. Use the graphics for selection. Here, the sensing ranges are put in relation to the field view and the lens focal length.
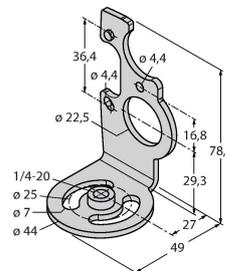
Accessories

SMBIVURAR	3082547

Brackets for mounting on right side
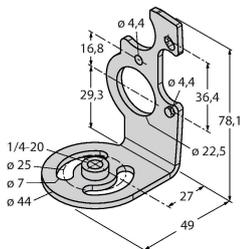
SMBIVURAL	3082546

Brackets for mounting on left side

SMBIVUU	3082549

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