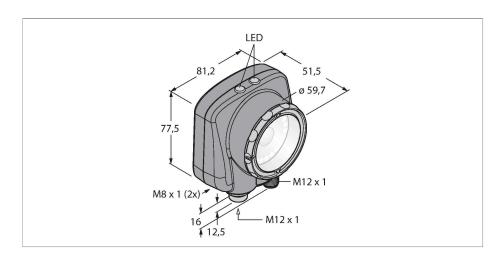


IVU2PRGX16 Image Processing – Grayscale Image Sensor



Technical data

Type	IVU2PRGX16	
ID	3090926	
Camera data		
Function	Gray value	
Resolution	752 × 480 pixels	
Brennweite	16 mm	
Special features	Wash down	
Electrical data		
Operating voltage U _B	1030 VDC	
DC rated operating current I _e	≤ 1000 mA	
Communication protocol	EtherNet/IP Modbus TCP PCCC PROFINET RS232	

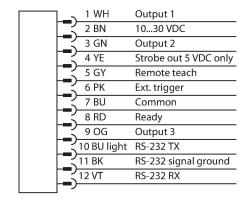
	NOZOZ		
Mechanical data			
Design	Rectangular, iVu PLUS		
Dimensions	51.5 x 81.2 x 95.3 mm		
Housing material	Plastic, Thermoplastic material, Black		
Window material	Acrylic, clear		
Electrical connection	Connector, M12 × 1, 12-wire		
Display	Remote		
Ambient temperature	0+50 °C		
Protection class	IP67		
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, 16 mm, M12x1
- ■External display RDM35 required
- Operating voltage 10...30 VDC
- ■M12 × 1 male, 12-pin
- ■3 x programmable switching output (PNP/NPN)
- ■1 x RS232 data communication
- Ethernet via M8 x 1 male, 4-pin
- ■USB 2.0 host: M8 female, 4-pin
- Industrial Ethernet: PROFINET, Ether-Net/IP, Modbus/TCP, PCCC

Wiring diagram



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

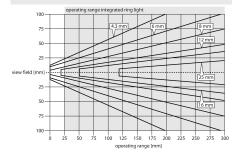
offers the same intuitive user interface and functionality of the previous iVu generation. Sensor with 3 integrated operating modes:

- 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

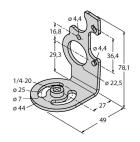


Selecting the focal length With known object size or scan field the matching vision sensor is found simply by determining the ratio between the sensing range and the focal length. Use the graphics for selection. Here, the sensing ranges are put in relation to the field view and the lens focal length.

Accessories

SMBIVURAR 3082547

Brackets for mounting on right side

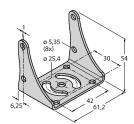




3082546
Brackets for mounting on left side

SMBIVUU 3082549

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



Accessories

 Dimension drawing
 Type
 ID

 IVUC-1206
 3014407



Power supply, M12 × 1 female connector, 12-pin, cable length: 1.83 m

Dimension drawing	Туре	ID	
# 1 M3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IVUC-E-406	3013892	Ethernet connection cable, M8 × 1 on RJ45, 4-pin, cable length: 2 m
## A 100 1	PSG-4M-401-USB	3011336	USB adapter cable, M8 × 1 male connector, 4-pin, cable length: 0.3 m
9145 M2 41	IVURDM-QD-803	3028673	Extension cable for RDM35 remote display, M12 × 1, 8-pin, cable length: 0.91 m
* 142 MI2x11	IVURD-MX-803	3011330	Extension cable for RD35 remote display, M12 × 1 to Molex, 8-pin, cable length: 0.91 m

Accessories

Dimension drawing	Туре	ID	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	RDM35	3029512	Remote display 3.5" touch screen for device installation, connection via M12 plug connector, IVURDM-QD-8 or IVURDM-QDK-8 required
10 10 10 10 10 10 10 10 10 10 10 10 10 1	RD35	3082646	Remote display 3.5", touch screen, connection via Molex integral connector, IVURD-MX-8 or IVURD-MXK-8 required