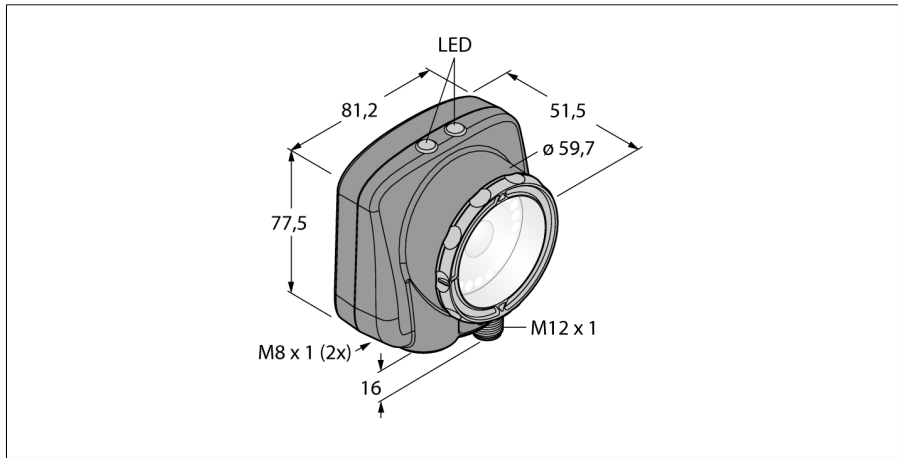


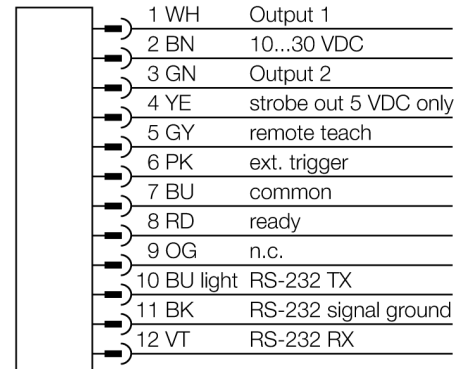
Vision systems
area, blemish, match, sort
IVUPTGB16



- Internal memory for 30 inspections
- 1/3" CMOS, 752x480 pixels
- Integrated ring light: blue
- Protection class IP67
- External strobe output + 5 VDC
- External trigger input
- Lens, 16 mm, M12x1
- Display: Integrated 65.5 mm LCD color display, 320 x 240 transreflective
- Operating voltage: 10...30 VDC
- Male M12 x 1, 12-pin
- 3 x programmable switching output (PNP/NPN)
- 1x RS232 data communication
- Ethernet via M8 x 1 male, 4-pin
- Industrial Ethernet: Ethernet/IP, Modbus/TCP, PCC
- USB-2.0 host: M8 female, 4-pin

| | |
|------------------------------|------------------------|
| Type code | IVUPTGB16 |
| Ident no. | 3016452 |
| Design | rectangular, iVu PLUS |
| Dimensions | 51.5 x 81.2 x 95.3 mm |
| Housing material | plastic, PBT |
| Window material | Acrylic, clear |
| Connection | male, M12 x 1, 12-wire |
| Protection class | IP67 |
| Ambient temperature | 0...+50 °C |
| Power on display | LED, green |
| Switching state | LED green |
| Error indication | LED red |
| Operating voltage | 10...30VDC |
| DC rated operational current | ≤ 850 mA |
| Short-circuit protection | yes/ cyclic |
| Reverse polarity protection | yes |
| Switch element function | programmable, PNP/NPN |
| Output current | ≥ 150 mA |
| Operating mode | gray value |
| Auflösung | 752 x 480 Pixel |
| Bildfrequenz | 100 fps |
| Light type | blue |
| Brennweite | 16 mm |

Wiring diagram



Functional principle

Sensor with 3 integrated operation modes:

1. Pattern recognition, checks if a pattern on a target is identical to the reference pattern.
2. BLOB recognition, for recognition of one or more features.
3. BLOB and location tool for motion control.

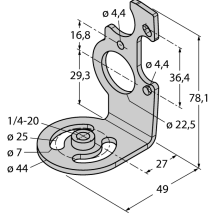
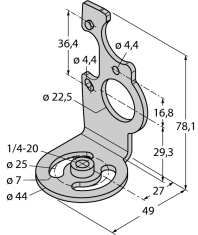
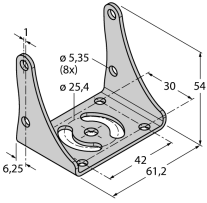
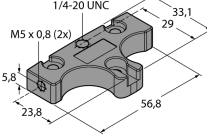
Sensor configuration via PC is not required!
Transmission of log files and firmware updates via USB interface. Up to 30 inspections can be stored.



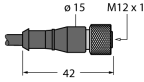
Selecting the focal length

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

| Type code | Ident no. | Description | Dimension drawing |
|-----------|-----------|---|---|
| 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) |  |
| SMBIVUB | 3082548 | Baseplate to extend the installation |  |

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|-------------|-----------|--|---|
| IVUC-1206 | 3014407 | Power supply, M12x1 female, 12-pole, 1.83m |  |
| IVUC-1206RA | 3014412 | Power supply, M12x1 rectangular female, 12-pole, 1.83m | |

Wiring accessories

| Type code | Ident no. | Description | Dimension drawing |
|----------------|-----------|---|-------------------|
| IVUC-E-406 | 3013892 | Ethernet connection cable, M8x1 on RJ45, 4-pole, 2m | |
| PSG-4M-401-USB | 3011336 | USB adapter cable, male M12x1, 4-pole, 0.3m | |