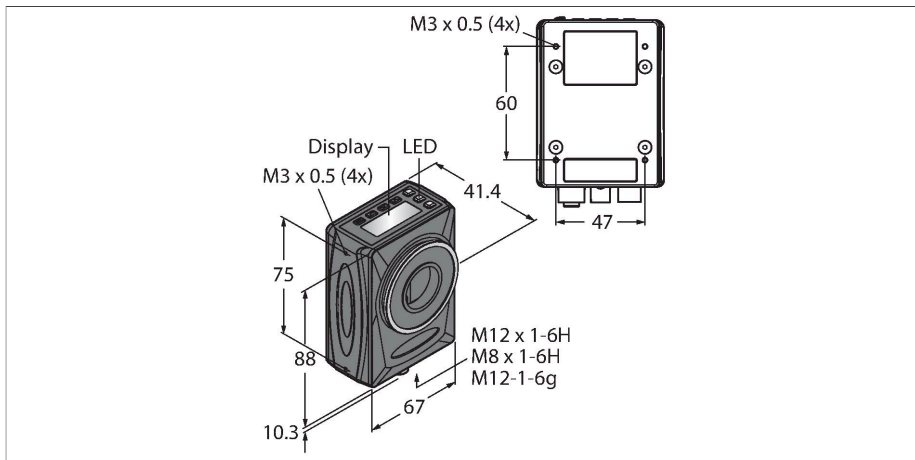


# VE200G1A

## Image Processing – Smart Camera



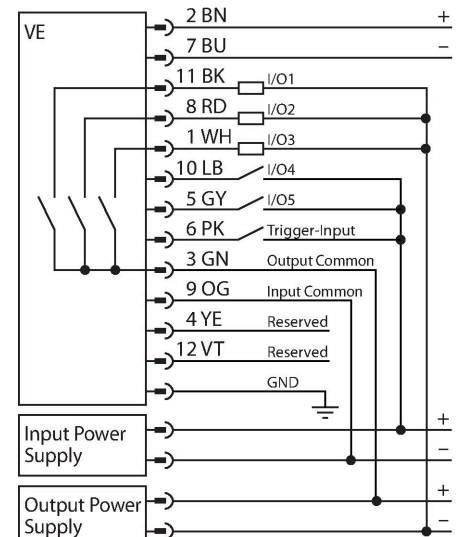
### Technical data

Type	VE200G1A
ID	3800974
<b>Camera data</b>	
Function	Multifunctional
Resolution	752 x 480 Pixels
Pixel size	5.3 µm
Frame rate	60 fps
Exposure time	0.02...500 ms
Internal memory	500 MB
Number of inspections	≤ 999
Lens	C-Mount
<b>Electrical data</b>	
Operating voltage	12...30 VDC
DC rated operational current	≤ 400 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Communication protocol	EtherNet/IP FTP Modbus TCP PCCC PROFINET RS232
Output function	Input/output programmable, 5 × PNP/ NPN optically decoupled
Power on display	LED, Green
Switching state	LED, Yellow
Error indication	LED, red
<b>Mechanical data</b>	
Design	Rectangular, VE

### Features

- Image processing tools: grayscale value, object, edge and positioning functions; pattern, blob, blemish and bead detection
- Analysis tools: mathematical operations and measuring function
- Vision manager software with intuitive user interface
- 1/1.8" CMOS, 0.3 MP image sensor
- 2-line, 8-segment LCD display with push-buttons
- 5 x PNP/NPN, input/output
- External trigger input
- Connection for external lighting
- Supports Ethernet protocol PROFINET, EtherNet/IP and Modbus/TCP)
- Protection class IP20, IP67 with lens cover (sold separately)
- C-mount lens (sold separately)

### Wiring diagram



## Technical data

Dimensions	88 x 67 x 41.4 mm
Housing material	Aluminium, AL
Electrical connection	Connector, M12 × 1, 12-wire
Ambient temperature	0...+50 °C
Protection class	IP20 IP67
Tests/approvals	
Approvals	CE, cULus list

## Functional principle

The VE smart camera has a 0.3-megapixel CMOS image sensor and combines the ease of use and configuration (similar to the iVu image sensor) with the powerful complexity and multifunctionality (similar to the PresensePlus P4) of an image processing system. The vision manager software is an intuitive user interface. It has a variety of editing options, great flexibility in the creation and editing of inspections, as well as the possibility to simulate inspections with an emulator in the course of an application analysis.

## Accessories

SMBVEMP

3800293

Mounting panel

Technical drawing of the SMBVEMP mounting panel. The drawing shows a rectangular plate with dimensions 87.6 x 60.7. It features 3x 10-32-2B screws, 2x M8 x 1.25 screws, and 2x 1/4-20-2B screws. A central hole has a diameter of 3.3. Other dimensions include 47, 60.7, 24.8, 40, 15, 24.4, 60, 87.6, 7, and 3.



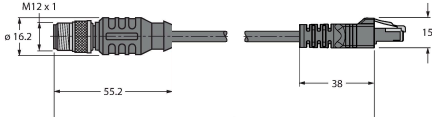
SMBVERA

3097185

Bracket for mounting on right side

Technical drawing of the SMBVERA bracket. The drawing shows a U-shaped bracket with dimensions 73, 60, 47, 81, 27, 46.5, 25, 7, 3.5, and 2.8. It has a central hole with a diameter of 25 and a smaller hole with a diameter of 7.

## Accessories

Dimension drawing	Type	ID	
 <p>Technical drawing of the MQDC2S-1206 connector. It shows a side view with a diameter of 15 mm and a length of 42 mm. The connector is labeled M12 x 1.</p>	MQDC2S-1206	3011420	Power supply, M12 × 1 female connector, 12-pin, cable length: 1.83 m
 <p>Technical drawing of the RKS12T-2/TXL cable. It shows a side view of the M12 x 1 connector with a diameter of 15 mm and a length of 45.4 mm. The cable length is L. The drawing also shows a detail of the 12-pin connector with a length of 50 mm and a diameter of 5 mm.</p>	RKS12T-2/TXL	6626917	Connection cable, M12 female connector, straight, 12-pin, shielding on coupling nut; cable length: 2 m, jacket material: PUR, black; cULus approval
 <p>Technical drawing of the RSS RJ45S 841-2M cable. It shows a side view of the M12 x 1 connector with a diameter of 16.2 mm and a length of 55.2 mm. The cable length is 2 m. The drawing also shows a detail of the RJ45 connector with a length of 38 mm and a diameter of 15 mm.</p>	RSS RJ45S 841-2M	U8626-2	Extension cable for Industrial Ethernet, M12 male connector to RJ45 male connector, 8-pin, cable length: 2 m, jacket material: TPE, green, shielded, stranded wires, twisted pair