Baumer
Passion for Sensors

CX series

# VCXU-13M

USB 3.0, 1,3 Megapixel, Monochrome

Article number: 11165908

## overview

- 1280 × 1024 px
- ON Semiconductor PYTHON1300
- 1/2″ CMOS
- 222 fps
- USB 3.0
- available




## technical data

| | |
|---|---|
| **sensor information** | |
| sensor | ON Semiconductor PYTHON1300 |
| resolution | 1280 × 1024 px |
| exposure time | 0,02 … 1000 ms |
| pixel size | 4.8 × 4.8 µm |
| shutter type | Global shutter |
| sensor type | 1/2″ CMOS |
| **acquisition formats** | |
| image formats, interface frame rate max. | Full Frame, 1280 × 1024 px, max. 222 fps<br>Binning 2×2, 640 × 512 px, max. 222 fps<br>Binning 2×1, 640 × 1024 px, max. 222 fps<br>Binning 1×2, 1280 × 512 px, max. 222 fps |
| pixel formats | Mono8<br>Mono10 |
| **image preprocessing** | |
| analog controls | Gain (0 … 48 dB)<br>Offset (0 … 255 LSB 12 Bit) |
| color models | Mono |
| **camera features** | |
| synchronization | free running<br>trigger |
| trigger sources | Hardware<br>software |
| trigger delay | 0 … 2 sec, tracking and buffering of up to 256 trigger signals |

| | |
|---|---|
| **camera features** | |
| internal image buffer | 477 MB<br>127 images (Trigger Mode)<br>1 image (Free Running Mode) |
| **interfaces and connectors** | |
| data interface | USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B |
| process interface | M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180) |
| power supply | via USB 3.0 interface |
| **mechanical data** | |
| lens mount | C-mount |
| width | 29 mm |
| height | 29 mm |
| depth | 38 mm |
| weight | ≤ 90 g |
| material | zinc die casting, nickel-plated, IP 40 |
| **electrical data** | |
| power consumption | approx. 2,9 W @ 222 fps |
| operating voltage | 5 VDC (via USB3.0 interface) |
| **non-volatile memory** | |
| flash memory size | 128 kB |
| **environmental conditions** | |
| operating temperature | +5 … +65 °C @ T = measurement point |
| humidity | 10 … 90 % (non-condensing) |
| protection class | IP 40 |

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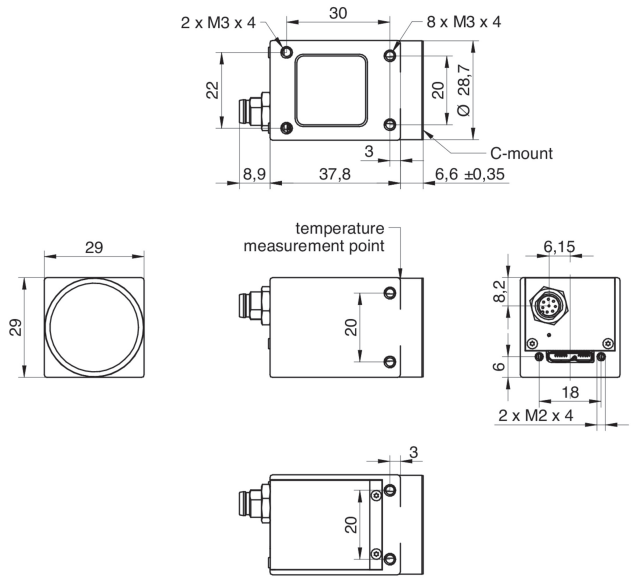
### digital I/Os

| | |
|---|---|
| lines | 1 input line<br>1 output line<br>2 general purpose lines |

### conformity

| | |
|---|---|
| conformity | CE<br>RoHS<br>KC (MSIP-REI-BkR-VCXU13M)<br>EAC |

## dimension drawing




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