

**overview**

- 4096 × 2160 px
- Sony IMX255
- 1" CMOS
- 42 fps
- USB 3.0



**technical data**

| sensor information                       |  | camera features                  |   |
|--|--|----------------------------------|---|
| sensor                                   | Sony IMX255  | trigger delay                    | 0 ... 2 sec, tracking and buffering of up to 256 trigger signals  |
| resolution                               | 4096 × 2160 px   | internal image buffer            | 330 MB<br>31 images (Trigger Mode)<br>1 image (Free Running Mode) |
| exposure time                            | 0,001 ... 60000 ms   | <b>interfaces and connectors</b> |   |
| pixel size                               | 3.45 × 3.45 μm   | data interface                   | USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B |
| shutter type                             | Global shutter   | process interface                | M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)                          |
| sensor type                              | 1" CMOS  | power supply                     | via USB 3.0 interface   |
| <b>acquisition formats</b>               |  | <b>mechanical data</b>           |   |
| image formats, interface frame rate max. | Full Frame, 4096 × 2160 px, max. 41 fps<br>Binning 2×2, 2048 × 1080 px, max. 160 fps<br>Binning 2×1, 2048 × 2160 px, max. 43 fps<br>Binning 1×2, 2048 × 1080 px, max. 43 fps | lens mount                       | C-mount   |
| pixel formats                            | Mono8<br>Mono10<br>Mono12<br>Mono12 Packed   | width                            | 29 mm   |
| <b>image preprocessing</b>               |  | height                           | 29 mm   |
| analog controls                          | Gain (0 ... 48 dB)<br>Offset (0 ... 255 LSB 12 Bit)  | depth                            | 38 mm   |
| color models                             | Mono   | weight                           | ≤ 90 g  |
| <b>camera features</b>                   |  | material                         | zinc die casting, nickel-plated, IP 40                            |
| synchronization                          | free running<br>trigger  | <b>electrical data</b>           |   |
| trigger sources                          | Hardware<br>software   | power consumption                | approx. 3,6 W @ 41 fps  |
|  |  | operating voltage                | 5 VDC (via USB3.0 interface)                                      |
|  |  | <b>non-volatile memory</b>       |   |
|  |  | flash memory size                | 128 kB  |
|  |  | <b>environmental conditions</b>  |   |
|  |  | operating temperature            | +5 ... +65 °C @ T = measurement point                             |
|  |  | humidity                         | 10 ... 90 % (non-condensing)                                      |
|  |  | protection class                 | IP 40   |

**technical data**

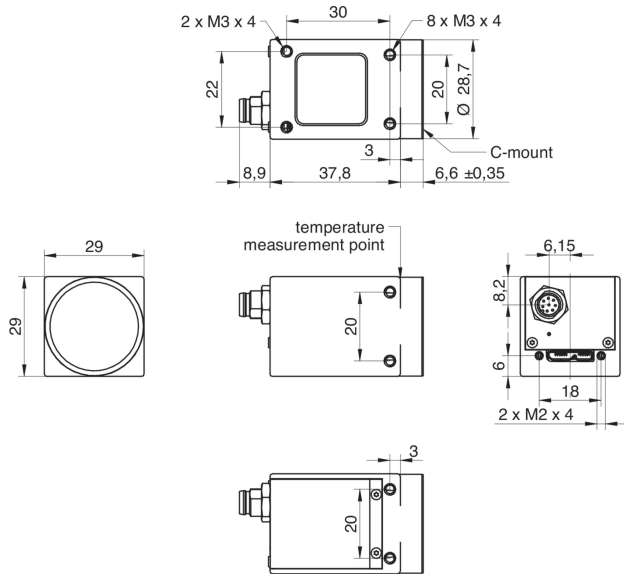
**digital I/Os**

lines  
1 input line  
1 output line  
2 general purpose lines

**conformity**

conformity  
CE  
RoHS  
EAC

**dimension drawing**



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