



Industrial imaging

3D sensors and cameras for installation behind protective panes



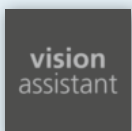
3D sensors / 3D cameras



Check the presence of people, count people or evaluate flows of people without violating personal rights

Flat front for installation behind protective panes prevents vandalism

Scattered light seal for installation behind glass



Surveillance for your safety

Besides surveillance of neuralgic points in public spaces such as shopping centres, railway stations or airports, ensuring the protection of critical installations, e.g. access control at banks, nuclear power plants or borders, is becoming more and more important. In many cases, 3D systems are used to ensure smooth operation of these increasingly complex installations. On the one hand, they ensure that everyone's personal rights are respected, on the other hand, they detect the number, position or direction of movement of passers-by.

Installation behind protective panes

If the 3D system is to be hidden for design reasons or protected against vandalism, installation behind protective panes is recommended. To this end, the housing has a particularly flat front face. Special scattered light seals simplify installation behind glass.



| Type | Type of sensor | Material front pane / LED window | Protection rating / protection class | Angle of aperture [°] | Max. field of view size [m] | Order no. |
|---|-----------------|----------------------------------|--------------------------------------|-----------------------|-----------------------------|---------------|
| PMD 3D cameras and PMD 3D sensors · type O3D · M12 connector · housing material: aluminium | | | | | | |
| Sensor | PMD 3D ToF chip | Gorilla Glass / polyamide | IP 65, IP 67 / III | 60 x 45 | 3.75 x 5.00 | O3D352 |
| Camera | PMD 3D ToF chip | Gorilla Glass / polyamide | IP 65, IP 67 / III | 60 x 45 | 3.75 x 5.00 | O3D353 |
| Sensor | PMD 3D ToF chip | Gorilla Glass / polyamide | IP 65, IP 67 / III | 70 x 51 | 4.00 x 5.50 | O3D354 |
| Camera | PMD 3D ToF chip | Gorilla Glass / polyamide | IP 65, IP 67 / III | 70 x 51 | 4.00 x 5.50 | O3D355 |

Accessories

| Type | Description | Order no. |
|------|-------------|-----------|
|------|-------------|-----------|

Mounting accessories

| | | |
|--|-------------------------------------|---------------|
| | Mounting set for O3D | E3D301 |
| | Cooling element | E3D352 |
| | Double cooling element | E3D354 |
| | Heat conductor | E3D353 |
| | Scattered light seal, self-adhesive | E3D306 |
| | Scattered light seal for insertion | E3D307 |

Connection technology

| | | |
|--|--|---------------|
| | Ethernet, cross-over patch cable, 2 m, PVC cable, M12 / RJ45 | E11898 |
| | Ethernet, jumper cable, 2 m, PVC cable, M12 / M12 | E21138 |
| | Socket, M12, 2 m black, PUR cable, 8 poles | E11950 |

Further technical data

| | | |
|---------------------------------------|--------|---|
| Operating voltage | [V DC] | 20.4...28.8 |
| Current consumption | [mA] | < 2400 peak current pulsed; typ. mean value 420 |
| Current rating (per switching output) | [mA] | 100 |
| Short-circuit protection, pulsed | | • |
| Overload protection | | • |
| Ambient temperature | [°C] | -10...50 |
| Real chip resolution | | 25,000 / 100,000 |
| Resulting resolution | | 176 x 132 pixels |
| Function display | LED | 2 x yellow, 2 x green |
| Illumination | | 850 nm, infrared |
| Immunity to extraneous light | [klx] | 8 (up to 100 klx possible with reduced measuring accuracy and repeatability) |
| Trigger | | external; 24 V PNP / NPN according to IEC 61131-2 type 3 |
| Switching inputs | | 2 (configurable), 24 V PNP / NPN according to IEC 61131-2 type 3 |
| Switching outputs digital | | 3 (configurable), 24 V PNP / NPN, according to IEC 61131-2 |
| Switching outputs analogue | | 1 (can be configured as current output 4...20 mA or voltage output 0...10 V) |
| Parameter setting interface Ethernet | | 10 Base-T / 100 Base-TX |
| Parameter setting options | | via PC / notebook |
| Dimensions (H, W, D) | [mm] | 72 x 67.1 x 82.6 |