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

IP 65 IP 67

Real-Time 3D

TCP/IP

EtherNet/IP

vision assistant

PROFINET

Surveillance for your safety

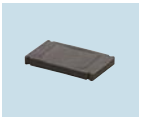
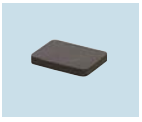
Besides surveillance of neuralgic points in public spaces such as shopping centres, railway stations or airports, ensuring the protection of critical installations, e.g. access control at banks, nuclear power plants or borders, is becoming more and more important. In many cases, 3D systems are used to 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