The revolution in intralogistics

Whether pallets, post room, storage building, logistics or distribution centre: The storage volume that can be used defines the capacity and the costs.

A good reason to ensure the best-possible use of the space requirement during feeding.

The new 3D sensor detects the dimensions of the goods via innovative time-of-flight technology. It signals via threshold values if e.g. package parameters are outside the defined areas.

For automated storage space planning via WMS (Warehouse Management System) or ERP system (Enterprise Resource Planning) it provides the size, orientation and position of the objects. The data is also used for controlling robots, sorting equipment and distribution gates. Besides robustness the sensor is also distinguished by user-friendly handling and simple integration.
### PMD 3D sensors · Type O3D · M12 connector

<table>
<thead>
<tr>
<th>Type of sensor</th>
<th>Material housing</th>
<th>Material front pane / LED window</th>
<th>Protection rating, protection class</th>
<th>Angle of aperture [°]</th>
<th>Max. field of view size [m]</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMD 3D ToF chip</td>
<td>Aluminium</td>
<td>Gorilla glass / polyamide</td>
<td>IP 65 / IP 67, III</td>
<td>40 x 30</td>
<td>2.61 x 3.47</td>
<td>O3D300</td>
</tr>
<tr>
<td>PMD 3D ToF chip</td>
<td>Aluminium</td>
<td>Gorilla glass / polyamide</td>
<td>IP 65 / IP 67, III</td>
<td>60 x 45</td>
<td>3.75 x 5.00</td>
<td>O3D302</td>
</tr>
<tr>
<td>PMD 3D ToF chip</td>
<td>Stainless steel</td>
<td>Polycarbonate / polyamide</td>
<td>IP 66 / IP 67, III</td>
<td>40 x 30</td>
<td>2.61 x 3.47</td>
<td>O3D310</td>
</tr>
<tr>
<td>PMD 3D ToF chip</td>
<td>Stainless steel</td>
<td>Polycarbonate / polyamide</td>
<td>IP 66 / IP 67, III</td>
<td>60 x 45</td>
<td>3.75 x 5.00</td>
<td>O3D312</td>
</tr>
</tbody>
</table>

### Technical data

**Dimensioning of the object**

- Operating distance [m]: 0.3...5
- Object type: Rectangular
- Min. object size [mm]: 100 x 100 x 100
- Object speed [m/s]: < 0.2
- Typical accuracy for object size [mm]: ± 10
- Typical accuracy for object position [mm]: ± 5
- Typical accuracy for angle of rotation [°]: ± 1

### 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 pixels: 176 x 132
- Illumination: 850 nm, infrared
- Ambient light [lux]: Max. 10,000 (indoor)
- 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: (configurable), 24 V PNP/NPN, according to IEC 61131-2
- Parameter setting interface Ethernet: 10 Base-T/100 Base-TX
- Possible parameter settings: Via PC / notebook
- Dimensions (H, W, D) [mm]: 72 x 65 x 85