# Diffuse sensors with background suppression

**OHDK 25G6912**

## General Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Background Suppression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Source</td>
<td>Pulsed Red Laser Diode</td>
</tr>
<tr>
<td>Sensing Distance Tw</td>
<td>100 ... 1750 mm</td>
</tr>
<tr>
<td>Sensing Range Tb</td>
<td>100 ... 1750 mm</td>
</tr>
<tr>
<td>Power On Indication</td>
<td>LED Green</td>
</tr>
<tr>
<td>Light Indicator</td>
<td>LED Yellow</td>
</tr>
<tr>
<td>Sensing Distance Adjustment</td>
<td>Teach-in</td>
</tr>
<tr>
<td>Laser Class</td>
<td>1</td>
</tr>
<tr>
<td>Wave Length</td>
<td>656 nm</td>
</tr>
<tr>
<td>Beam Diameter</td>
<td>3.7 ... 22 mm</td>
</tr>
<tr>
<td>Black/White Shift</td>
<td>0%</td>
</tr>
</tbody>
</table>

## Electrical Data

- **Response Time / Release Time**: < 10 ms
- **Voltage Supply Range**: +Vs 10 ... 30 VDC
- **Current Consumption Max. (no load)**: 80 mA
- **Voltage Drop Vd**: < 3.5 VDC
- **Output Function**: Light / Dark Operate
- **Output Circuit**: Push-Pull
- **Output Current**: < 100 mA
- **Number of Outputs**: 2
- **Short Circuit Protection**: Yes
- **Reverse Polarity Protection**: Yes

## Mechanical Data

- **Width / Diameter**: 23.4 mm
- **Height / Length**: 63 mm
- **Depth**: 45 mm
- **Type**: Rectangular
- **Housing Material**: Plastic (SAN LURAN 378P)
- **Front (Optics)**: PMMA
- **Connection Types**: Cable, 2 m

## Laser Warning

Class 1 Laser Product
IEC 60825-1:2014
Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007

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* * emitter axis

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**Photoelectric Sensors**

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**Dimension Drawing**

[Diagram of the sensor with dimensions]

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**Connection Diagram**

[Diagram of the connection of the sensor]

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**Laser Warning**

CLASS 1 LASER PRODUCT
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Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice No. 50, dated June 24, 2007

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**qTeach**
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<table>
<thead>
<tr>
<th>ambient conditions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>operating temperature</td>
<td>0 ... +50 °C</td>
</tr>
<tr>
<td>protection class</td>
<td>IP 67</td>
</tr>
<tr>
<td>storage temperature</td>
<td>-10 ... +70 °C</td>
</tr>
</tbody>
</table>

Photoelectric sensors

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