### Product characteristics

<table>
<thead>
<tr>
<th></th>
<th>Infrared light</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of light</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>1113 x 28 x 30</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Access prevention finger protection</td>
</tr>
</tbody>
</table>

---

**T** transmitter  
**R** receiver  
1. LED three-colour red / green / orange  
2. LED 2-colour yellow/blue  
3. LED 2-colour red/green
## Electrical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage tolerance [%]</td>
<td>20</td>
</tr>
<tr>
<td>Operating voltage [V]</td>
<td>24 DC</td>
</tr>
<tr>
<td>Protection class</td>
<td>III</td>
</tr>
<tr>
<td>Reverse polarity protection</td>
<td>yes</td>
</tr>
<tr>
<td>Power-on delay time [s]</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>Type of light</td>
<td>Infrared light</td>
</tr>
<tr>
<td>Wave length [nm]</td>
<td>950</td>
</tr>
<tr>
<td>Receiver Current consumption [mA]</td>
<td>83</td>
</tr>
<tr>
<td>Transmitter Current consumption [mA]</td>
<td>42</td>
</tr>
</tbody>
</table>

## Outputs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical design</td>
<td>PNP</td>
</tr>
<tr>
<td>Number of OSSD outputs</td>
<td>2</td>
</tr>
<tr>
<td>Max. current load per OSSD output [mA]</td>
<td>400; (24 V)</td>
</tr>
<tr>
<td>Short-circuit protection</td>
<td>yes</td>
</tr>
</tbody>
</table>

## Monitoring range

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected area height [mm]</td>
<td>1060</td>
</tr>
<tr>
<td>Resolution (detection capacity d) [mm]</td>
<td>14</td>
</tr>
<tr>
<td>Protection area width (low light intensity) [m]</td>
<td>0...3</td>
</tr>
<tr>
<td>Protection area width (high light intensity) [m]</td>
<td>1...6</td>
</tr>
</tbody>
</table>

## Reaction times

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response time [ms]</td>
<td>14.5</td>
</tr>
</tbody>
</table>

## Operating conditions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications Class C to EN 60654-1 weatherproof application</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature [°C]</td>
<td>-10...55</td>
</tr>
<tr>
<td>Max. relative air humidity [%]</td>
<td>95</td>
</tr>
<tr>
<td>Protection</td>
<td>IP 65; IP 67</td>
</tr>
</tbody>
</table>

## Tests / approvals

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMC</td>
<td>IEC 61496-1</td>
</tr>
<tr>
<td>Shock resistance</td>
<td>IEC 61496-1</td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>IEC 61496-1</td>
</tr>
</tbody>
</table>

## Safety classification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPE type (IEC 61496-1)</td>
<td>4</td>
</tr>
<tr>
<td>ISO 13849-1</td>
<td>Category 4, PL e</td>
</tr>
<tr>
<td>IEC 61508</td>
<td>SIL 3</td>
</tr>
<tr>
<td>IEC 62061</td>
<td>SIL cl 3</td>
</tr>
<tr>
<td>Mission time TM [h]</td>
<td>175200</td>
</tr>
<tr>
<td>Safety-related reliability PFHD [1/h]</td>
<td>2.5E-08</td>
</tr>
</tbody>
</table>
## Mechanical data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3675</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1113 x 28 x 30</td>
</tr>
<tr>
<td>Material</td>
<td>housing: aluminum; front lens: PC</td>
</tr>
<tr>
<td>Length L</td>
<td>1113</td>
</tr>
</tbody>
</table>

## Displays / operating elements

<table>
<thead>
<tr>
<th>Display</th>
<th>LED, yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LED, green</td>
</tr>
<tr>
<td></td>
<td>LED, red</td>
</tr>
<tr>
<td></td>
<td>LED, blue</td>
</tr>
<tr>
<td></td>
<td>LED, orange</td>
</tr>
</tbody>
</table>

## Accessories

<table>
<thead>
<tr>
<th>Accessories (supplied)</th>
<th>Assembly angle: 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Slot nuts: 4</td>
</tr>
<tr>
<td></td>
<td>Nuts</td>
</tr>
</tbody>
</table>

## Notes

For 8-wire cordsets the core colors are not standardized.; Please note the wiring of the sensor and the cordsets (see data sheet).

## Electrical connection - receiver

Connector: 1 x M12; Maximum cable length: 100 m; for wire cross-section 0.34 mm²
Connection

Electrical connection - transmitter

Connector: 1 x M12

Connector: 1 x M12