Your OsiSense® Sensors Guide

Choose & Use
### DC3 PNP/NPN

<table>
<thead>
<tr>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 (1.64)</td>
<td>5 (16.40)</td>
<td>10 (32.81)</td>
<td>25 (82.02)</td>
<td>50 (164.06)</td>
<td>75 (246.06)</td>
<td>100 (328.06)</td>
<td>200 (656.16)</td>
<td>400 (1312.26)</td>
</tr>
</tbody>
</table>

### Reflected

<table>
<thead>
<tr>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 (1.64)</td>
<td>5 (16.40)</td>
<td>10 (32.81)</td>
<td>25 (82.02)</td>
<td>50 (164.06)</td>
<td>75 (246.06)</td>
<td>100 (328.06)</td>
<td>200 (656.16)</td>
<td>400 (1312.26)</td>
</tr>
</tbody>
</table>

### Thru-beam

<table>
<thead>
<tr>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
<th>Sensing distance, m (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 (1.64)</td>
<td>5 (16.40)</td>
<td>10 (32.81)</td>
<td>25 (82.02)</td>
<td>50 (164.06)</td>
<td>75 (246.06)</td>
<td>100 (328.06)</td>
<td>200 (656.16)</td>
<td>400 (1312.26)</td>
</tr>
</tbody>
</table>

### Background Suppression (BGS)

- Diffuse: 0.1 (0.33)
- Polarised: 0.12 (0.39)
- Reflected: 0.13 (0.43)
- Through-beam: 0.15 (0.49)
- Compact 50x: 0.16 (0.52)
- Elbow: 0.17 (0.56)
- Compact 95X71: 0.18 (0.59)

### Output Types

- AC/DC
- PNP
- NPN
- NO
- NC
- Relay

### Additional Features

- Miniature
- Compact
- Pre-wired connectors (female)
- 3D mountings
- 6-pin
- Connector M8 4-pin
- Connector M12 6-pin
- Connector M8 4-pin
- Connector M12 6-pin

---

**OsiSense® XU Photoelectric**

- Cabling XU
- Pre-wired connectors (female)
- M12

---

**Output Type**

- Connection
- Output function

- Output Type: Connection
- Output function: NO or NC
OsiSense® Ultrasonic: SM, XX, XUV

### OsiSense® XUV Forks

<table>
<thead>
<tr>
<th>Output function</th>
<th>Output type</th>
<th>Connection</th>
<th>Sensing distance, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>PNP/NC</td>
<td>M8 3-pin</td>
<td>A: 50 / B: 60 (1.97 / 2.36)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M12 4-pin</td>
<td>A: 80 / B: 60 (3.15 / 4.72)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M30 4-pin</td>
<td>A: 120 / B: 120 (4.72 / 4.72)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M30 4-pin</td>
<td>A: 180 / B: 120 (7.09 / 4.72)</td>
</tr>
</tbody>
</table>

New short-range ultrasonic sensor for inductive applications

### Cabling SM/XUV

- **M8**
  - 3-pin:
    - 2 m: XZCP0566L2, XZCP0666L2
    - 5 m: XZCP0566L5, XZCP0666L5
    - 10 m: XZCP0566L10, XZCP0666L10
  - 4-pin:
    - 2 m: XZCP0941L2, XZCP1041L2
    - 5 m: XZCP0941L5, XZCP1041L5
    - 10 m: XZCP0941L10, XZCP1041L10

### Notes

- Sensors described in this catalog, with the exception of the safety detections products, are designed to be used for standard industrial presence sensing applications. These sensors do not include the self-checking redundant circuitry necessary to allow for their use in safety applications.

---

Schneider Electric USA, Inc.

© 2010 Schneider Electric. All rights Reserved.