**FEATURES**
- **AX-100S** - surface mount model
- **AX-100SR** - flush mount model
- Multi-Focus Optics
- Crystal-oscillated dual-modulated pulsed beam technology
- LED alignment indicator

<table>
<thead>
<tr>
<th>Model</th>
<th>AX-100S</th>
<th>AX-100SR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. detection range</td>
<td>Indoor 100ft (30m)</td>
<td></td>
</tr>
<tr>
<td>Max. arrival range</td>
<td>995ft (120m)</td>
<td></td>
</tr>
<tr>
<td>Interruption period</td>
<td>300m sec.</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>8 - 18V DC</td>
<td></td>
</tr>
<tr>
<td>Current consumption (transmitter + receiver)</td>
<td>32mA (max.)</td>
<td></td>
</tr>
<tr>
<td>LED alarm indicator</td>
<td>Transmitter: Red LED = transmitting condition&lt;br&gt;Receiver: Red LED = alarm condition</td>
<td></td>
</tr>
<tr>
<td>Alarm period</td>
<td>2 sec. (max)</td>
<td></td>
</tr>
<tr>
<td>Alarm output</td>
<td>N.C. 28V DC 0.2A max.</td>
<td></td>
</tr>
<tr>
<td>Tamper switch</td>
<td>Opens when cover removed: 30V DC 0.1A max.</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>4°F to 122°F (-20°C to +50°C)</td>
<td></td>
</tr>
<tr>
<td>Operating humidity</td>
<td>95% max.</td>
<td></td>
</tr>
<tr>
<td>Alignment angle</td>
<td>±90° Horizontal&lt;br&gt;±15° Horizontal</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall/switch box (surface)&lt;br&gt;Wall/switch box (flush)</td>
<td></td>
</tr>
<tr>
<td>Weight (trans+receiver)</td>
<td>4.5oz</td>
<td>6.0oz</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>4.7in x 2.8in x 2in</td>
<td>4.5in x 2.8in x 1.5in</td>
</tr>
</tbody>
</table>

**BX-100PLUS IMMEDIATE PERIMETER PROTECTION**

**FEATURES**
- 100ft detection range
- Dual IR pulsed beam system
- Internal sounder
- Easy alignment with visual and audible indicator
- Light Reduction Filter
- 99% beam blocking stability
- N.O. and N.C. relay outputs
- Active Infrared Technology
- Slim design

**OPTIONS**
- SP-1: Spacer unit
- MG-1: Vandal and tamper resistant metal guard
- WC-1: White decorative cover

<table>
<thead>
<tr>
<th>Detection range</th>
<th>8ft</th>
<th>10ft</th>
<th>12ft</th>
<th>16ft</th>
<th>20ft</th>
<th>25ft</th>
<th>30ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allowable height</td>
<td>12in</td>
<td>16in</td>
<td>20in</td>
<td>20in</td>
<td>20in</td>
<td>20in</td>
<td>20in</td>
</tr>
</tbody>
</table>

**Model**
- BX-100PLUS
- Max. detection range: 100ft (30m)
- Max. arrival range: 1000ft (300m)
- Interruption period: 50 msec
- Power supply: 10.5 - 28V DC
- Current consumption (transmitter + receiver): 75mA (max.)
- Alarm period: 2 ± 1 sec. (delay)
- Relay output: 2 relay outputs N.O. and N.C.
- Beeping period: 15 ± 1 sec. (delay)
- Volume of audible alarm indicator: Approx. 70dB (at 1 meter distance)
- Tamper switch: N.C. opens when cover is removed
- Operating temperature: -31°F to 122°F (-35°C to +55°C)
- Environmental humidity: 95% max.
- Alignment angle: ±92° Horizontal
- Mounting: Wall
- Weight (transmitter+receiver): 14oz (400g)
- Dimensions (H x W x D): 9.06in x 2.03in x 2.4in
- Weatherproof: IP54
AX-70TN, AX-130TN, AX-200TN / AX-100TF, AX-200TF

SHORT RANGE PERIMETER PROTECTION

FEATURES
- 70ft, 130ft and 200ft detection ranges (TN)
- 100ft and 200ft detection ranges (TF)
- Selectable 4 channel beam frequencies for stacking applications (TF)
- 4 step LED indicator
- Environmental disqualification circuit (TF)
- IP65 structure
- Lightning and surge protection
- Anti-frost hood cover
- 99% beam blocking stability
- A.G.C. circuit
- Adjustable interruption time

OPTIONS
- HU-3: Heating Unit 24V DC/AC, 420mA max.
- BC-3: Back Cover
- FSC 3: Pole Side Cover to install 2 AX to 1 pole

AX-250PLUS, AX-500PLUS / AX-350TF, AX-650TF

MID TO LONG RANGE PERIMETER PROTECTION

FEATURES
- 250ft and 500ft detection ranges (PLUS)
- 350ft and 650ft detection ranges (TF)
- Selectable 4 channel beam frequencies for stacking applications (TF Models)
- Environmental disqualification circuit (TF Models)
- Lightning and surge protection
- Anti-frost design
- 99% beam blocking stability
- A.G.C. circuit
- Adjustable interruption time

OPTIONS
- HU-1 Heating Unit 24V DC/AC, 430mA max.
- BC-1 Back Cover

Model
- AX-70TN
- AX-130TN
- AX-200TN
- AX-100TF
- AX-200TF

Max. detection range
- 70ft (20m)
- 130ft (40m)
- 200ft (60m)
- 100ft (30m)
- 200ft (60m)

Max. arrival range
- 70ft (20m)
- 130ft (40m)
- 200ft (60m)
- 100ft (30m)
- 200ft (60m)

Selectable beam freq.
- 4 channel
- 4 channel

Interruption period
- Select, between 50, 100, 250, and 500 msoe.

Power supply
- 10.5 - 28V DC

Current consumption (transmitter + receiver)
- 38mA (max.)
- 41mA (max.)
- 45mA (max.)
- 44mA (max.)
- 48mA (max.)

Alarm period
- 2 sec. (±1) nominal

Alarm output
- N.C. 28V DC 0.2A max.
- N.C./N.O. 28V DC 0.2A max.

Tamper switch
- N.C. opens when cover is removed at 28V DC, 0.2A max.

Operating temperature
- +31°F to +140°F (-3°C to +60°C)

Use optional heating unit (HU-3) when temp. drops below -13°F (-25°C)

Environmental humidity
- 95% max.

Alignment angle
- ±90° Horizontal, ±5° Vertical

Mounting
- Wall and pole mounting

Weight (trans. + receiver)
- 1lb, 7oz (650g)
- 24.7oz (700g)

Dimensions (H x W x D)
- 6.7in x 2.6in x 2.7in

Weatherproof
- IP65

Model
- AX-250PLUS
- AX-500PLUS
- AX-350TF
- AX-650TF

Max. detection range
- 250ft (75m)
- 300ft (90m)
- 350ft (100m)
- 650ft (200m)

Max. arrival range
- 250ft (75m)
- 300ft (90m)
- 350ft (100m)
- 650ft (200m)

Selectable beam freq.
- 4 channel

Interruption period
- Selectable 50, 100, 200, 350 and 500 msec.

Power supply
- 10.5 - 30V DC

Current consumption (transmitter + receiver)
- 50mA (max.)
- 60mA (max) normal
- 60mA (max) optical
- 60mA (max) normal
- 60mA (max) optical

Alarm period
- 2 sec. (±1) nominal

Alarm output
- Form C relay 28V DC 0.2A max.

Tamper switch
- N.C. opens when cover is removed (Receiver only)

Operating temperature
- -31°F to +140°F (-3°C to +60°C)

Use optional heating unit (HU-1) when temp. drops below -13°F (-25°C)

Environmental humidity
- 95% max.

Alignment angle
- ±90° Horizontal, ±10° Vertical

Mounting
- Wall and pole mounting

Weight (trans. + receiver)
- 5lbs 13oz (2700g)
- 6lbs 3oz (2800g)

Dimensions (H x W x D)
- 15.7in x 3.9in x 4.1in

Weatherproof
- IP54
AX-100TFR, AX-200TFR / AX-100TFRi, AX-200TFRi  WIRELESS-READY / WIRELESS PERIMETER PROTECTION

FEATURES

- iSeries version includes Inovonics EN1941 transmitter and batteries pre-assembled in the units
- Wireless-Ready version works w/ most manufacturers wireless systems
- 100ft and 200ft detection ranges
- Long battery life (Batteries Included)
- AX-100TFR / AX-100TFRi: approx. 5 years
- AX-200TFR / AX-200TFRi: approx. 3 years (transmitter)
- AX-200TFR / AX-200TFRi: approx. 5 years (receiver)
- Easy battery replacement
- Triple tamper functions
- Low battery output and LED indication
- Intermittent output function

OPTIONS

- MP-4: Main unit mounting bracket set (for tower mounting)

AX-TW200, AX-TW200M  FULLY CUSTOMIZABLE, PRE-ASSEMBLED* PHOTOB EAM TOWERS FOR AX SERIES PHOTOB EAMS

CUSTOMIZE YOUR OWN PHOTOB EAM TOWER

Create your own job specific Photobeam Tower from OPTEX. Start with either a double-sided, free standing tower or single sided, wall mount tower and then add any combination of Heater, Power Supply, Tamper, and Photobeam. Both Towers will even accommodate the AX-100TFR and AX-200TFR wireless beams to create a completely secure perimeter with no trenching. With a provided site plan, OPTEX will build and customize it to your application and have it shipped to the job site for easy and time saving installation.

AVAILABLE OPTIONS

- Top cover with tamper / anti-sabotage switch
- Screw rail for beam installation and easy height adjustment
- Vandal resistance polycarbonate cover
- Power supply
- Anodized aluminum column
- Photobeam support kit
- Tower heater
- Corrosion resistant aluminum base with cabling screw holes
- Concrete base bracket

*Site plan required for pre-assembled towers