PHOTOELECTRIC DETECTOR

BASIC MODELS
SL-200QN
SL-350QN
SL-650QN
- 60m / 200ft.
- 100m / 350ft.
- 200m / 650ft.

STANDARD MODELS
SL-200QDP
SL-350QDP
SL-650QDP
- 60m / 200ft.
- 100m / 350ft.
- 200m / 650ft.

ADVANCED MODELS
SL-200QDM
SL-350QDM
SL-650QDM
- 60m / 200ft.
- 100m / 350ft.
- 200m / 650ft.

HARD-WIRED MODELS
STANDARD MODEL
SL-350QFR
- 100m / 350ft.

BATTERY OPERATED MODELS
BASIC MODEL
SL-350QNR
- 100m / 350ft.

BEAM TOWER MODELS
SL-200QDP-BT
SL-350QDP-BT
SL-650QDP-BT
- 60m / 200ft.
- 100m / 350ft.
- 200m / 650ft.

ABC-4
Anti Bird Cap
for
- SL-200QDM/350QDM/650QDM
- SL-200QN/350QN/650QN

BC-4
Back cover
for
- SL-200QDM/350QDM/650QDM
- SL-200QN/350QN/650QN

POSC-4
Pole Side Cover
for
- SL-200QDM/350QDM/650QDM
- SL-200QN/350QN/650QN

CBR-4
Conduit Bracket
for
- SL-200QDM/350QDM/650QDM
- SL-200QN/350QN/650QN

HU-3
Heating Unit
for
- SL-200QDM/350QDM/650QDM
- SL-200QN/350QN/650QN

BAU-4
Beams Alignment Unit
for
- SL-200QDM/350QDM/650QDM
- SL-200QNR/350QNR

EC-4
Extension Cable with Connector
for
- SL-350QFR/350QNR

BAU-4
Aligns optical axis automatically.
Motor Head

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Anyone can LOCK ON,

The IR transmitter and receiver must be perfectly aligned in order to achieve the optimal operation of the photoelectric detector. However, a great deal of patience, time and effort is required to ensure that the receiver is receiving the maximum amount of infrared signal possible from the transmitter. Optex has the solution the SL series is designed to lighten your workload while achieving perfect alignment.

**SNIPER VIEWFINDER™**

X2 MAGNIFICATION LENS

The new telescope lens has a high level of visibility for optical alignment work. Even over long distances, a perfect installation and stable performance can be achieved in a short period.

**BEAM ALIGNMENT UNIT : BAU-4 (option)**

The BAU-4 beam alignment unit automatically and accurately adjusts the optical axis. This allows peak performance and gives one technician the ability to install the 200 m (650 ft.) Smart Line detector by himself.

**LED INDICATOR AND SOUND ASSIST**

SL-QDM:TRANSMITTER AND RECEIVER

SL-QDP: RECEIVER only

The alignment level indicators have 5 LEDs, each LED represents the level of alignment, ranging from poor to excellent. The optical alignment level can also be checked by sound.

**UPPER/LOWER BEAM SELECTION BUTTON**

SL-QDM/SL-QDP only: TRANSMITTER AND RECEIVER

Optical alignment can be done without using a beam blocking plate since the SL has upper/lower beam selection button which enables to turn on and off the upper and lower beam alternately in the installation mode.

**DOUBLE MODULATION BEAM (SL-QDM/QDP only)**

By employing quad beam, it dramatically reduces false alarm caused by birds and falling leaves. Moreover, it is also important that the housing design of both long and short beams is harmonised. 60m (200ft.) range models, SL-200QN/SL-200QDP/SL-200QDM with a wide beam pitch is now available.

The SL-QDM and SL-QDP series offer double modulation beams that differ in pulse patterns. This can enhance signal discrimination against potential noise interference such as sunlight or other external light sources, resulting in a reduction of missed or false alarms. Together with OPTEX triple layered Sunshine Protection Technology, it ensures high reliability under the severe outdoor security environment.

**ANTI FROST DESIGN**

(Hood design)

The hoods are positioned on both the upper beam and the lower beam to secure a high and stable beam power by preventing frost from attaching to the front cover.

**IP65 WATER/DUST PROTECTION**

Rubber seals is used for all conceivable points where water or dust may penetrate, such as wiring holes, wire ports and the outer openings on chassis.

**UV-resistant POLY CARBONATE COVER**

Front cover is not clouded by ultraviolet ray during a long term. Therefore it will maintain the transparency of IR beams.

**QUAD BEAM WITH ASPHERICAL LENSES**

The high-grade aspherical lens create more sharply defined and precise active infrared beams.

**ALIGNMENT DIAL**

The alignment no longer requires a screwdriver. All you need is touch with your fingers for precise adjustment.

**SHUT OUT ANY TROUBLES**

The new telescope lens has a high level of visibility for optical alignment work. Even over long distances, a perfect installation and stable performance can be achieved in a short period.

**SNIPE VIEWFINDER™**

X2 MAGNIFICATION LENS

The new telescope lens has a high level of visibility for optical alignment work. Even over long distances, a perfect installation and stable performance can be achieved in a short period.
ENVIRONMENT RESISTANCE

SUNSHINE PROTECTION TECHNOLOGY (SL-QDM/SL-QDP only)

The sunshine protection technology has a triple layer construction to give better performance against external light sources (e.g., the sun, mercury-vapour lamps, and fluorescent lights).

1. The front cover with special filter materials to remove visible lights.
2. The photodiode devices with IR bandpass filter to transmit only the same wavelength of the IR beams.
3. The light disturbance compensation circuit to differentiate original double modulated beams from other external light sources.

BEAM POWER CONTROL SELECTOR (SL-QDM/SL-QDP only)

The beam power control selector allows you to manually adjust beam power from NORMAL to LOW or VERY LOW. This function is effective for the following purposes:

- For countermeasure against crosstalk due to reflection of wall or floor by reducing beam power.
- For countermeasure against interference due to unstable S/N (signal / noise) ratio when using multiple photo beams for long distance or beam stacking applications.
- To reduce beam power when using the detector for a distance shorter than the rated distance.
- To search the peak value when making optical alignment to support perfect alignment.

A.T.P.C.-AUTOMATIC TRANSMIT POWER CONTROL (SL-QDM only)

Automatically controls, adjusts and optimizes the power of the beam and maintains optimal performance. It decreases false and missed alarms caused by fog, frost, cross talk, and signal saturation.

Selection Guide

<table>
<thead>
<tr>
<th>Function</th>
<th>ADVANCED</th>
<th>STANDARD</th>
<th>BASIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHT DISTURBANCE</td>
<td>++</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>REFLECTION</td>
<td>++</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>INTERFERENCE</td>
<td>++</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>FOG</td>
<td>+</td>
<td></td>
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</tr>
<tr>
<td>LIGHTNING</td>
<td>++</td>
<td>+</td>
<td>++</td>
</tr>
<tr>
<td>FROST</td>
<td>++</td>
<td>+</td>
<td>+</td>
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<tr>
<td>RE-TRANSMISSION FUNCTION</td>
<td>+</td>
<td></td>
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<tr>
<td>LED INDICATOR AND SOUND ASSIST</td>
<td>++</td>
<td>++</td>
<td></td>
</tr>
<tr>
<td>WIRELESS (BATTERY OPERATED)</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>BEAM TOWER MOUNTING</td>
<td>++</td>
<td>++</td>
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</tbody>
</table>

HARDWIRED MODELS

- SL-200QDM
- SL-350QDM
- SL-650QDM

BATTERY OPERATED MODELS

- SL-350QFR
- SL-350QNR
# HARD-WIRED MODELS

## SL-200QDM/350QDM/650QDM

### FEATURES
- High power quad beam
- Double modulation
- Beam power control selector
- AATPC - Automatic alignment status communication
- Upper/lower beam selection button
- Beam power control selector

### Specifications
<table>
<thead>
<tr>
<th>Model</th>
<th>SL-200QDM</th>
<th>SL-350QDM</th>
<th>SL-650QDM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam frequency</td>
<td>433 MHz</td>
<td>433 MHz</td>
<td>433 MHz</td>
</tr>
<tr>
<td>Current consumption</td>
<td>Normal 26mA</td>
<td>Normal 17mA</td>
<td>Normal 33mA</td>
</tr>
<tr>
<td>Water protection</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
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<tr>
<td>Dimensions</td>
<td>448 (17.6) x 97 (3.8) x 96 (3.8) mm (inch)</td>
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<tr>
<td>Weight</td>
<td>2000 g (88.2 oz)</td>
<td>2800 g (98.8 oz)</td>
<td>3300 g</td>
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</tbody>
</table>

## SL-200QDP/350QDP/650QDP

### FEATURES
- High power quad beam
- Double modulation
- Upper/lower beam selection button
- Beam power control selector

### Specifications
<table>
<thead>
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## SL-200QN/350QN/650QN

### FEATURES
- High power quad beam
- Smart design - Slim body
- Vivid interior color

### Specifications
<table>
<thead>
<tr>
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