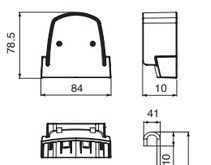
OPTIONS

ABC-4



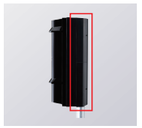


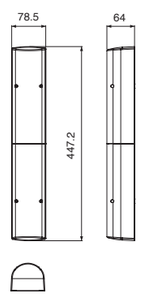
Anti Bird Cap
for
• SL-200QDM/350QDM/650QDM
• SL-200QDP/350QDP/650QDP
• SL-200QN/350QN/650QN
• SL-350QFR/SL-350QNR



(mm)

BC-4

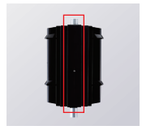


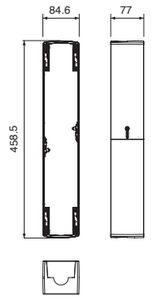


Back cover
for
• SL-200QDM/350QDM/650QDM
• SL-200QDP/350QDP/650QDP
• SL-200QN/350QN/650QN
• SL-350QFR/350QNR

(mm)

PSC-4



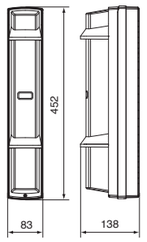


Pole Side Cover
for
• SL-200QDM/350QDM/650QDM
• SL-200QDP/350QDP/650QDP
• SL-200QN/350QN/650QN
• SL-350QFR/350QNR

(mm)

CBR-4

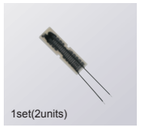


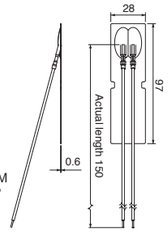


Conduit Bracket
for
• SL-200QDM/350QDM/650QDM
• SL-200QDP/350QDP/650QDP
• SL-200QN/350QN/650QN

(mm)

HU-3





Heating Unit
for
• SL-200QDM/350QDM/650QDM
• SL-200QDP/350QDP/650QDP
• SL-200QN/350QN/650QN
*2sets (4 units) are used for SL series.

(mm)

Power input	24VAC/DC
Current draw	420mA(max.) (Per 1 unit)
Thermo switch	60°C (140°F)

BCU-5



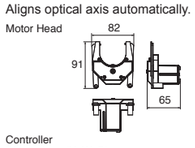
Share power source and low battery signals between the main unit and the wireless transmitter.
for
• SL-350QFR/350QNR

Input voltage	3.2 - 4.0 VDC	
Low battery input (EX+/-)	N.C. input only	
Current draw	Approx. 5 μA at 3.6 VDC (no load)	
Output voltage	Normal	Approx. 3.0 - 3.6VDC
	Low battery	Approx. 2.0 - 2.6VDC
Output current	100 mA (max.)	
Operating temperature	-20°C - +60°C (-40°F - +140°F)	
Operating humidity	95% (max.)	

BAU-4



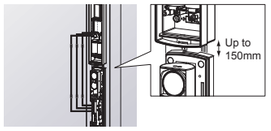
Aligns optical axis automatically.



Controller
Dimensions (HxWxD):
180mm x 120mm x 45mm

Beam Alignment Unit
for
• SL-200QDM/350QDM/650QDM
(applicable to receiver and transmitter)
• SL-200QDP/350QDP/650QDP
• SL-200QN/350QN/650QM
• SL-350QFR/350QNR
• SL-200QDP-BT/350QDP-BT/650QDP-BT
• SL-350QFR-BT/350QNR=BT
(applicable to receiver only)

EC-4



Extension Cable with
Connector
for
• SL-350QFR/SL-350QNR

OPTEX CO., LTD. (JAPAN)
URL: http://www.optex.net

OPTEX INC. / AMERICAS HQ (U.S.)
URL: http://www.optexamerica.com

OPTEX DO BRASIL LTDA. (Brazil)
URL: http://www.optex.net/br/es/sec

OPTEX (EUROPE) LTD. / EMEA HQ (U.K.)
URL: http://www.optex-europe.com

OPTEX TECHNOLOGIES B.V. (The Netherlands)
URL: http://www.optex.eu

OPTEX SECURITY SAS (France)
URL: http://www.optex-security.com

OPTEX SECURITY Sp.z o.o. (Poland)
URL: http://www.optex.com.pl

OPTEX PINNACLE INDIA, PVT., LTD. (India)
URL: http://www.optex.net/in/en/sec

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URL: http://www.optexchina.com

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OPTEX
Sensing Innovation

PHOTOELECTRIC DETECTOR

Smart Line™ series

HARD-WIRED MODELS

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

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

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

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

BATTERY OPERATED MODELS

STANDARD MODEL
SL-350QFR : 100m / 350ft.

BASIC MODEL
SL-350QNR : 100m / 350ft.

BEAM TOWER MODEL
SL-350QFR-BT : 100m/350ft.





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™

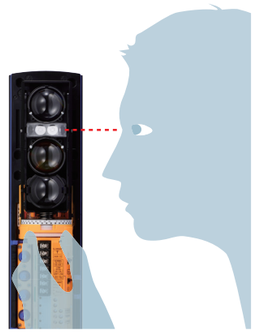
X2 MAGNIFICATION LENS

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.



Conventional model

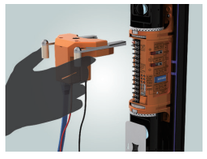
X2 magnification lens



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.

THE world first AUTOMATIC BEAM ALIGNMENT







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.



TRANSMITTER



RECEIVER

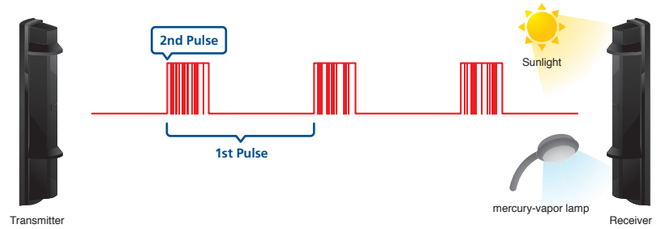
UPPER/LOWER BEAM SELECTION BUTTON

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)



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.

QUAD BEAM & UNITED APPEARANCE

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.



Conventional short beam



Smartline series

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.

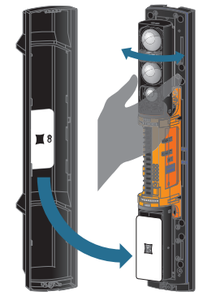


SLIM BODY & LIGHT WEIGHT

20% reduction of the body size and 15% reduction of the weight come together in the SL series.

BEAM BLOCKING PLATE

The plate can firmly be fixed on the lens unit without fear to be blown off by wind. The plates can be stored in the back of the front cover.



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.

VIVID INTERIOR COLOR

Easy-to-see vivid interior color for optical alignment.

ALIGNMENT DIAL

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

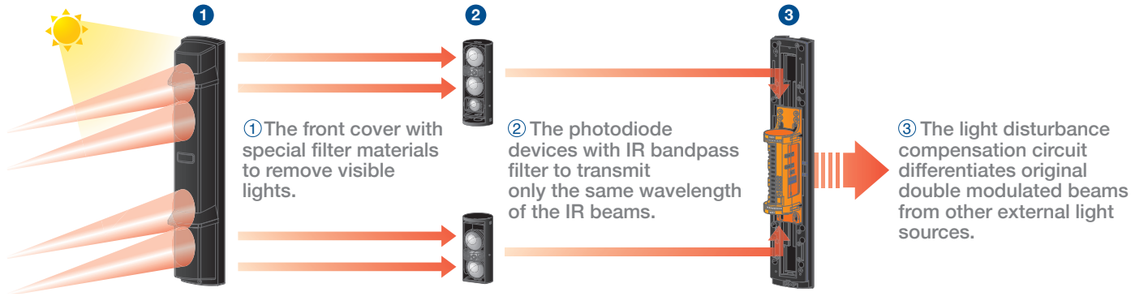
QUAD BEAM WITH ASPHERICAL LENSES

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

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).

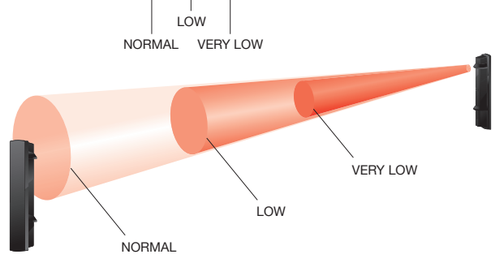


BEAM POWER CONTROL SELECTOR (SL-QDM/SL-QDP only)

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.

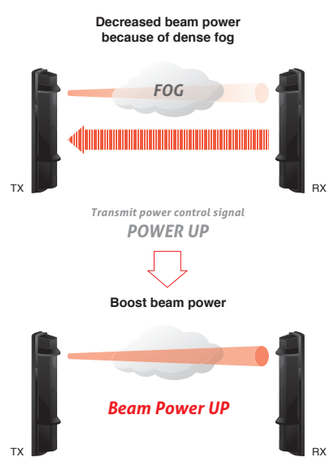


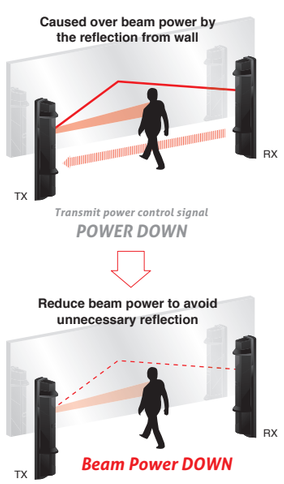


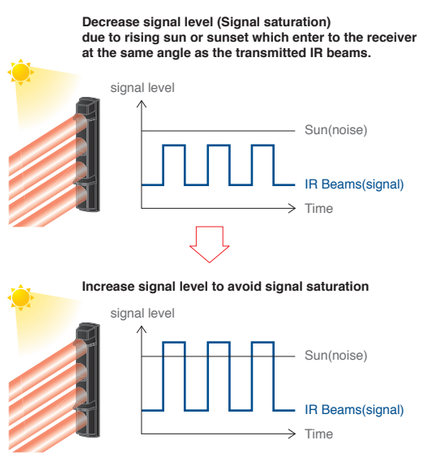
A.T.P.C.-AUTOMATIC TRANSMIT POWER CONTROL (SL-QDM only)

Patent pending

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

++ Most appropriate
+ Appropriate

	HARD-WIRED MODELS			BATTERY OPERATED MODELS	
	ADVANCED	STANDARD	BASIC	STANDARD	BASIC
	SL-200QDM SL-350QDM SL-650QDM	SL-200QDP SL-350QDP SL-650QDP	SL-200QN SL-350QN SL-650QN	SL-350QFR	SL-350QNR
LIGHT DISTURBANCE (Expected impact :False alarm)	++	+			
REFLECTION (Expected impact :Missed alarm)	++	+			
INTERFERENCE (Expected impact :Missed alarm)	++	+		+	
FOG (Expected impact :False alarm)	+				
LIGHTNING (Expected impact :Unit damage)	+	+	+	++	++
FROST (Expected impact :False alarm)	++	+	+		
RE-TRANSMISSION FUNCTION	+				
LED INDICATOR AND SOUND ASSIST	++	+			
WIRELESS (BATTERY OPERATED)				++	++
BEAM TOWER MOUNTING		+ WIRED SL-200QDP-BT SL-350QDP-BT SL-650QDP-BT		+ BATTERY OPERATED SL-350QFR-BT	

HARD-WIRED MODELS



ADVANCED MODEL

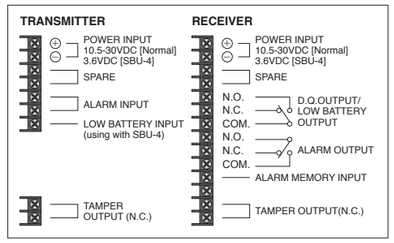
SL-200QDM/350QDM/650QDM

FEATURES

- High power quad beam
- Double modulation
- Beam power control selector
- A.T.P.C.-Automatic transmit power control
- I.A.S.C.- Integrated alignment status communication
- Upper/lower beam selection button
- Beam power control selector

Specifications

Model	SL-200QDM	SL-350QDM	SL-650QDM
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 26mA/Max. 60mA		
Ambient temperature	-35°C - +60°C (-30°F - 140°F)		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	2500 g(88.2oz)		



STANDARD MODEL

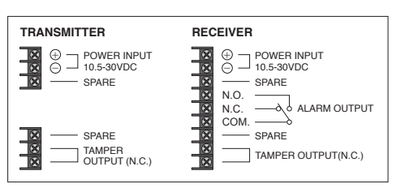
SL-200QDP/350QDP/650QDP

FEATURES

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

Specifications

Model	SL-200QDP	SL-350QDP	SL-650QDP
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 17mA/Max. 24mA		
Ambient temperature	-35°C - +60°C (-30°F - 140°F)		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	2400g(84.6oz)		





BASIC MODEL

SL-200QN/350QN/650QN

FEATURES

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

Specifications

Model	SL-200QN	SL-350QN	SL-650QN
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	-		
Current consumption	38-40mA		
Operating temperature	-25°C - +60°C (-13°F - 140°F)		
Water protection	IP65		
Dimensions H x W x D	448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)		
Weight	2400g(84.6oz)		

BATTERY OPERATED MODELS



STANDARD MODEL

SL-350QFR

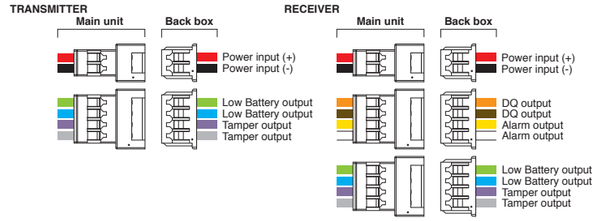
BASIC MODEL

SL-350QNR

WIRELESS

FEATURES

- Long distance 100m / 350ft.
- Long battery life - 4 to 8 years
- Spacious back box for wireless transmitter



Specifications

Model	SL350QFR	SL-350QNR
Detection range	100m/350ft.	100m/350ft.
Beam frequencies	4ch selectable	-
Power source	Recommend: 3.6 V, 13.0Ah LSH20 lithium batteries manufactured by SAFT Operating range: 3.2 V - 4.0 V lithium batteries Transmitter: 2 or 4 units, Receiver: 2 or 4 units	
Current consumption	745µA	
Operating temperature	-20°C - +60°C (-4°F - 140°F)	
Water protection	IP65	
Dimensions H x W x D	452 (17.9) x 83 (3.3) x 138 (5.4) mm(inch)	
Weight	3300 g	

BEAM TOWER MODELS



WIRED MODELS

SL-200QDP-BT/350QDP-BT/650QDP-BT

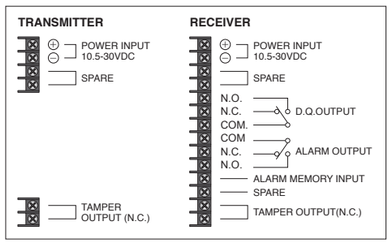
FEATURES

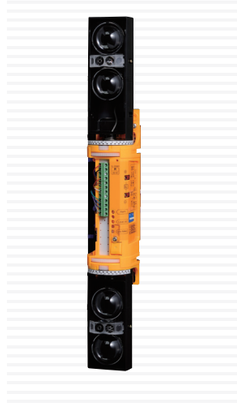
- High power quad beam
- Double modulation
- Upper/lower beam selection button
- Beam power control selector

*This model is not included the cover and the chassis.

Specifications

Model	SL-200QDP-BT	SL-350QDP-BT	SL-650QDP-BT
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current consumption	Normal 17 mA / Max. 24mA		
Operating temperature	-35°C to +60°C (-30 to 140°F)		
Water protection	-		
Dimensions H x W x D	405.1 (15.9) x 56.5(2.22) x 60.1 (2.36) mm(inch)		
Weight	Approx. 800g(28.2oz)		





BATTERY OPERATED MODEL

SL-350QFR-BT

FEATURES

- Long distance 100m / 350ft.
- Long battery life - 4 to 8 years
- Spacious back box for wireless transmitter

*This model is not included the cover and the chassis.

Specifications

Model	SL-350QFR-BT
Detection range	100m/350ft.
Beam frequencies	4ch selectable
Power source	Recommend: 3.6V, 13.0Ah LSH20 lithium batteries manufactured by SAFT Operating range: 3.2 V to 4.0 V lithium batteries Transmitter: 2 or 4 units, Receiver: 2 or 4 units
Current consumption	745µA
Operating temperature	-20°C to +60°C (-4 to 140°F)
Water protection	-
Dimensions H x W x D	405.1 (15.9) x 56.5(2.22) x 60.1 (2.36) mm(inch)
Weight	Approx. 800g(28.2oz)

