

## PHOTOELECTRIC DETECTOR

# **Smart Line**<sup>™</sup> series

### **HARDWIRED MODELS**

### PROFESSIONAL MODELS

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

### STANDARD MODELS

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

## **BATTERY-OPERATED, WIRELESS MODELS**

**ISERIES PROFESSIONAL MODEL** 

(Includes Batteries and Inovonics EN1941 Transmitters)

SL-350QFRi: 100m / 350ft.

ADVANCED MODEL (Empty Back Box accepts most manufacturers wireless transmitters)

**SL-350QFR**: 100m / 350ft.





The SL Series employs features and options to help achieve optimal alignment more quickly and efficiently.

## 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 minimal time.







Conventional model

X2 magnification lens

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

The BAU-4 beam alignment unit automatically and accurately adjust the optical axis. This allows peak performance and gives one technician the ability to align a 650ft. (200m) Smart Line detector without additional help.









## 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:TRANSMITTER AND RECEIVER

Optical alignment can be done without using a beam blocking plate since the SL has an upper/lower beam selection button. This button turns on and off the upper and lower beam alternately.











### **QUAD BEAM DETECTION**

OPTEX now offers quad beam detection from 200ft. to 650ft., dramatically reducing false alarm caused by birds and falling leaves.





## **IP65 WATER/DUST PROTECTION**

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



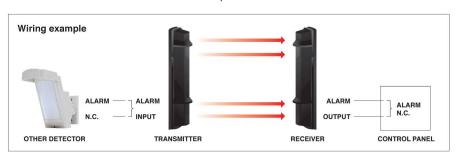
## ANTI-CLOUDED POLY CARBONATE COVER

Front cover will not be clouded by ultraviolet rays during a long term. Therefore, it will maintain transparency of IR beams.



## RE-TRANSMISSION FUNCTION (SL-QDM only)

When the alarm input terminal of the transmitter receives the signal from other detectors, the transmission of the beam is stopped and the receiver outputs on alarm signal to the control panel. The advantage of the re-transmission function is the elimination of wiring from detector or switch back to the control panel.



#### **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 of being 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 and lower beams to keep beam power stable by preventing frost from attaching to the front cover.

## **VIVID INTERIOR COLOR**

Easy-to-see vivid interior color helps with alignment process at long distances.

### **ALIGNMENT DIAL**

Alignment no longer requires a screwdriver. The new alignment dial allows easy adjustment with your fingers.

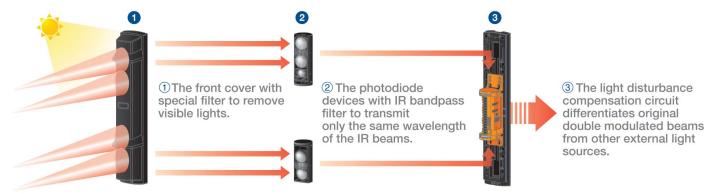
## QUAD BEAM WITH ASPHERICAL LENSES

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



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

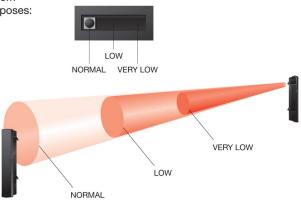
The beam power control selector allows you to manually adjust beam power from NORMAL to LOW or VERY LOW. This function is effective for the following purposes:

Helps to prevent crosstalk due to reflection of wall or floor by reducing beam power.

Prevents interference due to unstable S/N (signal / noise) ratio when using multiple photo beams for long distance or beam stacking applications.

Allows detector to be used in applications shorter than the rated minimum distance.

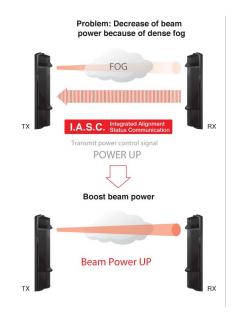
Helps to achieve optimal alignment during aligning process.

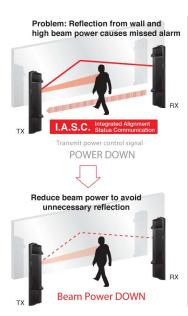


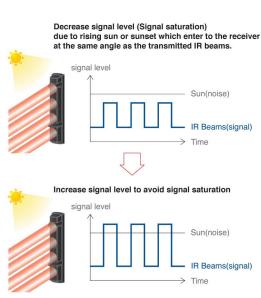
## A.T.P.C.-AUTOMATIC TRANSMIT POWER CONTOL (SL-QDM only)



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, signal saturation.







## **SELECTION GUIDE**

	HAI	RD-WIRED MODI	ELS	BATTERY OPE	RATED MODELS
	PROFESSIONAL	ADVANCED	STANDARD	PROFESSIONAL	ADVANCED
Most Appropriate	SL-200QDM SL-350QDM SL-650QDM	SL-200QDP SL-350QDP SL-650QDP	SL-200QN SL-350QN SL-650QN	SL-350QFRi  powered by INOVONICS°	SL-350QFR
<b>Appropriate</b>	apa pp	are are			
LIGHT DISTURBANCE (Expected impact: False alarm)	++	+			
REFLECTION (Expected impact: Missed alarm)	++	+			
INTERFERENCE (Expected impact: Missed alarm)	++	+		+	
FOG (Expected impact: False alarm)	+				
LIGHTNING SURGE  (Expected impact: Unit damage)	+	+	+	++	++
FROST  (Expected impact: False alarm)	++	+	+		
RE-TRANSMISSION FUNCTION	+				
LED INDICATOR AND SOUND ASSIST	++	+			
WIRELESS (BATTERY OPERATED) WIRELESS				++	++

## HARD-WIRED MODELS



ADVANCED MODEL

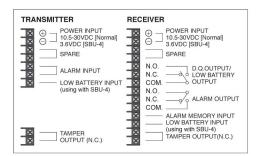
## **SL-200QDM/350QDM/650QDM**

#### **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
- · SOLAR BATTERY UNIT (OPTION: SBU-4)

#### **Specifications**

Model	SL-200QDM	SL-350QDM	SL-650QDM
Detection range	60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencies	4ch selectable		
Current comsumption	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

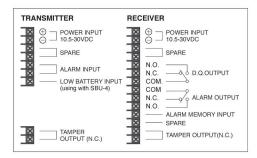
## **SL-200QDP/350QDP/650QDP**

#### **FEATURES**

- · HIGH POWER QUAD BEAM
- · DOUBLE MODULATION
- · 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 comsumption	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

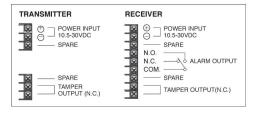
## **SL-200QN/350QN/650QN**

### **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 comsumption	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**



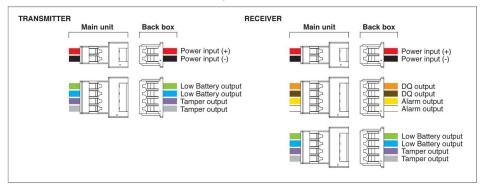
PROFESSIONAL ISERIES MODEL

ADVANCED MODEL

## **SL-350QFR**



- FEATURES
   No trenching or wiring needed
- · Long distance 100m / 350ft.
- · Long battery life 4 to 8 years
- Batteries and Inovonics EN1941 Included
- · No trenching or wiring needed
- · Long distance 100m / 350ft.
- · Long battery life 4 to 8 years Spacious Back Box for wireless transmitter



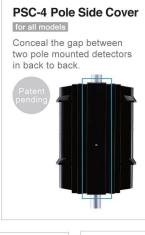
#### **Specifications**

Model	SL350QFRi	SL-350QFR	
Detection range	100m/350ft.	100m/350ft.	
Beam frequencies	4ch selectable	4ch selectable	
Power source	Four LSH20 lithium batteries (2 transmitter and 2 receiver) manufactured by SAFT included	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	
Wireless Transmitter	Inovonics EN1941 Included	Not Included	
Current comsumption	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		

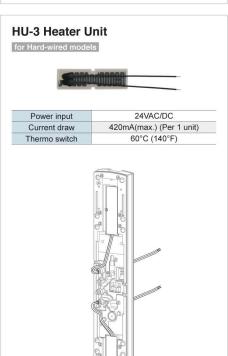
### SL SERIES OPTIONS

# **ABC-4 Anti Bird Cap** for all models Prevents birds and small animals from sitting on the detector. Protects the front of the detector from excessive rain and snow.

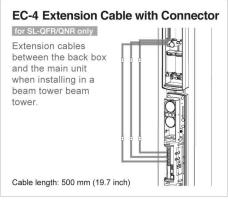


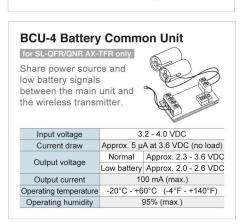












## **SHORT RANGE MODELS**



## AX-100TFR/200TFR

## BATTERY OPERATED PHOTOELECTRIC DETECTOR

AX-100TFR: Detection range 30m / 100ft AX-200TFR: Detection range 60m / 200ft



## AX-70TN/130TN/200TN

## SHORT RANGE PHOTOELECTRIC DETECTOR

AX-70TN : Detection range 20m / 70ft. AX-130TN: Detection range 40m / 130ft. AX-200TN: Detection range 60m / 200ft.

## AX-100TF/200TF

### 4ch. BEAM FREQENCIES SELECTABLE MODELS

AX-100TF: Detection range 30m / 100ft. AX-200TF: Detection range 60m / 200ft.

Optex Inc. **Security Division** 18730 S. Wilmington Ave., Unit 100 Rancho Dominguez, CA 90220 800-966-7839



