VARIOUS OPTIONS



SHORT RANGE MODELS



WIRELES AX-100TFR/200TFR BATTERY OPERATED PHOTOELECTRIC DETECTOR AX-100TFR : Detection range 30m / 100ft. AX-200TFR : Detection range 60m / 200ft.



OPTEX

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URL: http://www.optex.net./in/en/sec/ **OPTEX KOREA CO., LTD. (Korea)**

OPTEX PINNACLE INDIA, PVT., LTD. (India)

AX-70TN/130TN/200TN

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

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

AX-100TF/200TF

SHORT RANGE PHOTOELECTRIC DETECTOR

4ch. BEAM FREQENCIES SELECTABLE MODELS

OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China) URL: http://www.optexchina.com/

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PHOTOELECTRIC DETECTOR

Smart Line[®] series

HARD-WIRED MODELS

ADVANCED MODELS

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

BASIC MODELS

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

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

BATTERY OPERATED MODELS

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

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

Anyone can LOCK ON,

Automatically 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.





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.





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.



TRANSMITTER

RECEIVER



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

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 rav during a long term. Therefore it will

maintain the transparency of IR beams.

CONVENTIONAL





SHUT OUT ANY TROUBLES



SL series



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.

NORMAL VERY LOW VERY LOW LOW NORMAL

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.



HARD-WIRED MODELS ADVANCED STANDARD SL-200QDM SL-200QDP SL-350QDM Most appropriate SL-350QDP SL-650QDM SL-650QDP Appropriate ala 🐂 LIGHT DISTURBANCE + (Expected impact :False alarm) REFLECTION ÷ (Expected in **INTERFERENCE** (Expected impact :Missed alarm) FOG + (Expected impact :False alarm) LIGHTNING ┿ (Expected impact :Unit damage FROST * X × + ** X (Expected impact :False alarm) **RE-TRANSMISSION** FUNCTION LED INDICATOR AND + SOUND ASSIST 0 0 / Ō WIRELESS (BATTERY OPERATED WIRELESS

SELECTION GUIDE

		RY OPERATED M	
BASIC SL-200QN SL-350QN	STANDARD	BASIC SL-350QNR	SOLAR BATTERY SBU-4+
SL-650QN	_		SL-QDM series
			1
			++
			++
	+		++
			+
+	++	++	++
+			
			+
			++
	++	++	+

HARD-WIRED MODELS



ADVANCED MODEL **SL-200QDM/350QDM/650QDM**



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TAMPER OUTPUT (N.C.)

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POWER INPUT 10.5-30VDC [Normal] 3.6VDC [SBU-4] SPARE N.O. N.C. COM. D.Q.OUTPUT/ LOW BATTERY OUTPUT ALARM OUTPUT

BATTERY OPERATED MODELS







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	745μΑ	
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		x 138 (5.4) mm(inch)
Weight 3300 g		10 g



STANDARD MODEL **SL-200QDP/350QDP/650QDP**

448 (17.6) x 79 (3.1) x 96 (3.8) mm(inch)

2500 g(88.2oz)

FEATURES

Dimens

HxWxD

Weight

• High power quad beam

 Double modulation Upper/lower beam selection button

Beam power control selector

Specification	5			
Model		SL-200QDP	SL-350QDP	SL-650QDP
Detection range		60m/200ft.	100m/350ft.	200m/650ft.
Beam frequencie	s	4ch selectable		
Current consumption		Nor	mal 17mA/Max. 24	4mA
Ambient temperatu	ire	-35°C	- +60°C (-30°F - 1	140°F)
Water protection			IP65	
Dimensions H x W x D		448 (17.6) x	x 79 (3.1) x 96 (3.8	3) mm(inch)
Weight			2400g(84.6oz)	

TRANSMITTER	RECEIVER
⊕ □ POWER INPUT ⊖ □ 10.5-30VDC	Image: Second state Image: Second state Ima
SPARE	SPARE
	N.O.
	COM.
	N.C. ALARM OUTPU
	× N.O
	ALARM MEMORY INPUT
TAMPER OUTPUT (N.C.)	



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)		

TRANSMITTER	RECEIVER
SPARE TAMPER OUTPUT (N.C.)	COM> SPARE TAMPER OUTPUT(N.C.)

OPTION



Replacement battery Rechargeable Li-ion Battery Pack

LB-4 Approx. 2900 mAh







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SBU-4
Approx. 1 hour on sunshine day Approx. 6 hours on cloudy day
Charging is suspended at approx5°C or less,or approx. 60°C or more.
Form C relay: 28 VDC, 0.2 A Low battery detection voltage: 3.4 V
Horizontal : ±180° (30-degree pitch)
Vertical : +15 - +90° (5 °pitch)
Under eave mounting:+0 - +55° (5° pitch)
Wall /horizontal surface/pole