

#### **QUAD BEAMS**

PB50HF-KH	Up to 50m External / 100m Internal		
PB100HF-KH	Up to 100m External / 200m Internal		
PB200HF-KH	Up to 200m External / 400m Internal		

ANTI-CRAWL BEAM

PB100AT-KH

Up to 100m External / 200m Internal

## **FEATURES**

#### **4 SYNCHRONISED HIGH POWER BEAMS**

'AND-Gated' to prevent 'nuisance-alarms' from birds, animals and blown litter (HF-KH models).

#### 'ANTI-CRAWL' FEATURE

For high-security applications the PB100AT-KH model detects low-level or crawling intrusion: selectable AND/OR facility for 2 or 4-beam activation with variable response times for maximum security while minimising 'nuisance-alarms'.

#### 'DOUBLE-MODULATED' BEAM SIGNAL

This unique feature combined with external light compensation circuitry offers unrivaled immunity to accidental or deliberate interference from sunlight, car headlights and other artificial light sources.

## **4 SELECTABLE BEAM FREQUENCIES (CHANNELS)**

Allows multiple beams to be used 'in-line' or 'stacked without 'cross-talk' (interference).

#### **AUTO-GAIN LOCK / AUTO-GAIN CONTROL**

Maintains beam stability in the harshest of weather conditions - eg. fog, rain, snow or frost.

#### **ENVIRONMENTAL MONITORING (FOG WARNING)**

Can be used to warn of the build up of mist, fog or snow on the protected site.

#### **EASY BEAM ALIGNMENT**

Beam heads adjust horizontally ±90° (180° total) and vertically ±10°, with signal-strength indicated by audible signal or test-meter: LED indicators for 'Alarm', 'Signal Attenuated', 'Alarm Memory', and LED or audible 'Walk-Test' mode.

#### **DOUBLE COATED ELECTRONICS**

Electronic components are double coated for resistance to corrosion from moisture and condensation.

#### 12/24VDC OPERATION

For maximum system flexibility.

#### INTELLIGENT PHOTOELECTRIC BEAM SENSORS



Takex PBHF-KH Intelligent Quad Beams are designed specifically for use in Takex TA Series Beam Towers. Unique Quad beams are snychronised to maintain range and stability in severe weather, while rejecting 'nuisance-alarms' caused by birds, animals, or blown-litter.

PB100AT-KH Anti-Crawl beams are available for high-security applications to detect low-level or crawling intrusion.

Supplied with PTKH 'Quickfix' mounting brackets for fast, trouble-free assembly, the beam units locate in vertical slide-channels in the TA tower spine, allowing easy and precise height adjustment.

Takex KH Beams and TA Towers are the perfect combination for reliable perimeter intrusion detection in the most demanding of situations - as illustrated in the 'Marine Environment' example above.

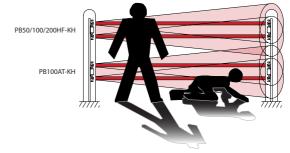




## INTELLIGENT PHOTOELECTRIC BEAM SENSORS



# EXAMPLE APPLICATION



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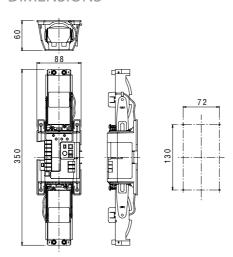
PB50HF-KH
Up to 50m External / 100m Internal Quad Beam (4-Channel)

PB100HF-KH
Up to 100m External / 200m Internal Quad Beam (4-Channel)

PB200HF-KH
Up to 200m External / 400m Internal Quad Beam (4-Channel)

PB100AT-KH
Up to 100m External / 200m Internal Anti-Crawl Beam (4-Channel)

# **DIMENSIONS**



#### **SPECIFICATIONS**

Product name		Photoelectric	beam sensor			
Model	PB50HF-KH	PB100HF-KH	PB200HF-KH	PB100AT-KH		
Detection System	Near infrared beam interruption system					
Infrared beam	Double modulation pulsed beams by LED					
Protection distance	50m	100m	200m	100m		
Max. arrival distance	500m	1000m	2000m	1000m		
Response time	50msec. to 700msec. variable (standard: 50msec.) Var.35 to 500msec. (AND 100, 200, 300, 500msec. (C					
Power supply	12V to 30VDC (non-polarity)					
Current consumption	60mA or less at protection (max. 95mA or less)	70mA or less at protection (max. 105mA or less)	85mA or less at protection (max. 120mA or less)			
Alarm output	Dry contact relay output 1 c Reset: Interruption time + off-delay (approx. 1.5sec) Contact capacity: 30V (AC/DC) 1A or less					
Environmental output (Fog warning)	Dry contact relay output 1 c Contact operation: Output when weather condition worsens Contact capacity: 30V (AC/DC) 1A or less					
Alarm LED	Red LED (receiver) lights when alarm is initiated					
Sensitivity attenuation LED	Red LED (receiver) lights when beam reception is attenuated					
Ambient temperature range	-35°C to + 66°C					
Beam adjustment	Horizontal: ±90° / Vertical: ±10°					
Functions	Modulated beam frequency selection, Tone indicator, Environmental module, Beam power selection, Alarm memory indication, Programmed AGC, Auto-gain lock function, Monitor jack					
Wiring	Terminals					
Weight	Transmitter: 300g / Receiver: 400g					

Due to on going product improvements, specifications may change.

# ASSOCIATED PRODUCTS









## TA SERIES

Takex TA Series Beam Towers are available as attractive but rugged Wallor Floor-Mount units, as Single- or Double-Sided variants. PTS
Thermostat for use with PTH heaters

(one thermostat required per Tower).

#### PTH

Heater 12VDC, 250mA to prevent the build-up of condensation or frost on the Tower covers. Use one PTH under each Beam unit.

#### CRFB

Mounting Base Bolt Set for TAD and TAS Towers (optional - for setting into wet concrete).

### TAPS

Pressure-sensitive Anti-Climb switch for all TA series Towers (activation pressure approx. 20Kg).

Note: This sensor is designed to detect intrusion and to initiate an alarm; it is not a burglary or crime preventing device. TAKEX is not responsible for damages or loss caused by accidents, theft, acts of God (including inductive lightning), abuse, misuse, abnormal use, faulty installation or improper maintenance.



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