

OPTEX i-Series Wireless Outdoor Detectors Catalogue



OPTEX, a leading sensor manufacturer, provides a range of quality detection systems based on infra red, microwave, laser and fibre optic technologies, to help protect any site from intrusion. Using proven technologies, OPTEX delivers multi-layered perimeter protection that secures the immediate surroundings of the perimeter, the actual perimeter line (being a fence, a wall or just a virtual line) and the site area itself. Its systems are featured in thousands of installations worldwide, from military and government facilities to power stations and other sites of critical infrastructure.

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iSeries
wireless

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FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- 100ft and 200ft detection ranges
- Long battery life (Batteries Included)
 - AX-100TFR / AX-100TFRi: approx. 5 years
 - AX-200TFR / AX-200TFRi: approx. 3 years(trans)
 - AX-200TFR / AX-200TFRi: approx. 5 years(receiver)
- Easy battery replacement
- Triple tamper functions
- Low battery output and LED indication
- Intermittent output function

OPTIONS

- MP-4: Main unit mounting bracket set (for tower mounting)

| Model | AX-100TFRi | AX-200TFRi |
|-------------------------------|--|-------------------------|
| Range | 100ft (30m) | 200ft (60m) |
| Max. arrival distance | 265m | 530m |
| Detection method | Infrared beam interruption detection | |
| Beam freq. selection | 4 channel | |
| Interruption period | Variable between 50, 100, 250, 500msec | |
| Power source | 3.6V 13.0Ah : (4) LSH20 lithium batteries manufactured by SAFT (included) | |
| Current draw | 810 μ A T:490 μ A + R:320 μ A (at 25°C, 3.6VDC) 620 μ A T:300 μ A + R:320 μ A (at 25°C, 3.6VDC) | |
| Battery life | 5 yrs | Trans. 3 yrs Rec. 5 yrs |
| Alarm output | Form C-Solid State Switch : 3.6VDC, 0.01A | |
| Alarm period | 2 sec (\pm 1) nominal | |
| D.Q. output | Form A/B-Solid State Switch : 3.6VDC, 0.01A | |
| Low battery output | Form A/B-Solid State Switch: 3.6VDC, 0.01A | |
| Tamper output for Front cover | Form C: 3.6 VDC, 0.01 A | |
| Tamper output for Back box | Form C: 3.6 VDC, 0.01 A: activates when either back box/chassis is removed | |
| Indicator | Alarm Indicator (Receiver) (1) Light on - IR Beam not received. (2) Flickering - IR Beams not received sufficiently. (3) Light off - IR Beams received. Power (Transmitter) Power ON : ON Power OFF : OFF Low battery Voltage Reduction : flicker Operating temp -4°F to +140°F (-20°C to +60°C) Envir. humidity 95%(Max.) Alignment angle \pm 90° Horizontal, \pm 5° Vertical Mounting Indoor/Outdoor, Wall/Pole/Tower mounting (Optional main unit mounting brackets are required, when the units mount in the tower.) Weight 56.5oz (1600g) (transmitter + receiver) Int. protection IP55 | |



HX-40RAMi



HX-80NRAMi

FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Easy short and long range masking with built in flaps and plates (HX-80RAMi)
- Mounting height 8.3ft - 10ft
- Digital anti-masking function
- Low current draw
- Form C alarm output and tamper output
- Selectable NC/NO trouble output
- 180° angle adjustable bracket



| Model | HX-40RAMi | HX-80NRAMi |
|-----------------------|---|---|
| Detection method | Passive infrared | Passive infrared |
| PIR Coverage | 40' x 50' (12 m) 85° wide / 94 zones | 80' x 67' (24m x 2m) narrow / 20 zones |
| Distance limit | 13', 18', 30', 40' (4m, 5.5m, 9m, 12m) | 22', 33', 42', 59' (6.5m, 10m, 13m, 18m) |
| Detectable speed | 1 - 5ft/s | 3.6°F at 5ft/s |
| Sensitivity | 3.6°F at 5ft/s | |
| Power input | 3 - 7.2VDC Lithium Battery (CR123A x 3, CR2 x 3, 1/2AA x 3, 1-2AA x 6) | |
| Current draw | 30 μ A (standby) / 4mA (max) at 3VDC | |
| Alarm period | 2.0s \pm 1 sec | |
| Warm-up period | Approx. 90 sec(LED blinks) | |
| Alarm output | Form C - Solid State - 10VDC 0.01A max | |
| Trouble output | N.C./N.O. Selectable - Solid State - 10VDC 0.01A | |
| Tamper output | Form C. 28V DC, 0.1A max. (changes when cover is removed) | |
| LED indicator | Disable : During normal operation. Enable : During WALK TEST or LED SW on. Red : Warm-up, Alarm, Trouble, Low battery | |
| RF Interference | No alarm 10 V/m | |
| Operating temperature | -4 - +140°F (-20 - +60°C) | |
| Environment humidity | 95% max | |
| Weatherproof | IP55 | |
| Mounting | Wall (Outdoor, Indoor) | |
| Mounting height | 8.3 - 10 ft. (2.5 - 3.0 m) | |
| Bracket adjust angle | Vertical: \pm 20° Horizontal: \pm 95° | |
| Weight | 21.2 oz (600 g) | 27.5 oz (780 g) |
| Accessories | Bracket, Hood, Area masking seal, Screw kit (3 x 10-2, 4 x 20-4), Velcro tape x 2, Alarm cable, Battery lead x 2, Dummy battery kit | Bracket, Screw (4 x 20 mm) x 4, Velcro tape x 2, Alarm cable, Battery lead x 2, Dummy battery kit |

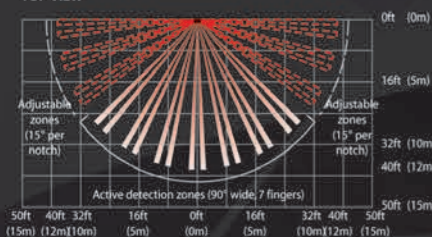


FEATURES

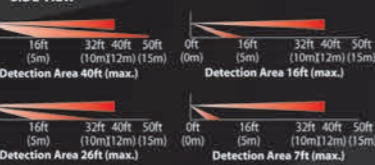
- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Dual PIR's for extremely stable outdoor detection
- Battery saving circuit
- Form C alarm output and tamper output
- Low current draw
- Limited detection range function
- Size judging function
- Sensitivity selection switch
- Temperature compensation

| Model | VX-402Ri |
|------------------------|--|
| Coverage | 40ft x 40ft (12m) 90° wide |
| Detection zones | 14 zones |
| Sensitivity | 35°F at 2ft/s |
| Detectable speed | 1ft - 5ft/s |
| Power supply | 3 - 9 VDC lithium or alkaline battery |
| Current consumption | 3mA (walktest, LED on) 10 μ A (standby) |
| Alarm period | Approx. 2.5 sec. |
| Alarm output | Form C - solid state switch : 10V DC0.01A |
| Battery saving time | Approx. 120 sec. or 5 sec. |
| Tamper switch | Form C activates when cover is removed |
| Pulse Count | Approx. 20 sec. 2 or 4 / Test (1pulse) |
| Warm-up period | Approx. 2 min. |
| LED indicator | Disable during normal operation Enable during walk test |
| Operating temperature | -4°F to 122°F (-20°C to +50°C) |
| Environmental humidity | 95% max. |
| RF interference | No Alarm 30V/m |
| Mounting height | 2.6ft - 4ft (0.8m - 1.2m) |
| Mounting | Wall, pole |
| Weight | 11b 1oz (480g) |
| Dimensions (H x W x D) | 7.8in x 3.15in x 4.25in |
| Weatherproof | IP54 |

TOP VIEW



SIDE VIEW



When only the lower zone detects a moving object, the unit is not activated.
 When only the upper zone detects a moving object, the unit is not activated.
 When both the upper & lower zones detect a moving object, the unit is activated.



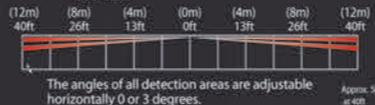
FEATURES

- Includes Inovonics EchoStream EN1941 and battery pre-installed
- Battery saving circuit
- Form C alarm output and tamper output
- Low current draw
- Limited detection range function
- Size judging function to avoid false alarms
- Variable detection range to 24m (12m on each side)

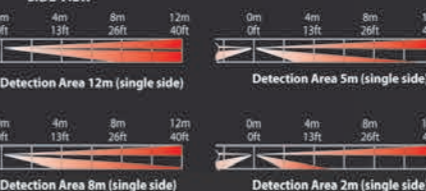
OPTIONS

- BA-1W: Multi angle wall mount bracket

TOP VIEW



SIDE VIEW



When only the lower zone detects a moving object, the unit is not activated.
 When only the upper zone detects a moving object, the unit is not activated.
 When both the upper & lower zones detect a moving object, the unit is activated.



| Model | BX-80NRi |
|------------------------|--|
| Coverage | 80ft x 3ft (40ft on each side) |
| Detection zones | 4 zones (2 zones on each side) |
| Sensitivity | 2.0°C at 0.6m/sec. |
| Detectable speed | 0.3m - 1.5m/s |
| Power supply | 3 - 9VDC lithium or alkaline Battery |
| Current consumption | 3mA(Walktest, LED on) 15uA(Standby) |
| Alarm period | 2 \pm 1 sec. |
| Alarm output | Form C-Solid state switch: 10V DC 0.01A |
| Battery saving time | Approx. 120 sec. or 5 sec. |
| Tamper switch | Form C activates when cover is removed |
| Warm-up period | Approx. 2 min. |
| LED indicator | Disable during normal operation Enable during walktest or LED switch on |
| Operating temperature | -4°F to 122°F (-20°C to +50°C) |
| Environmental humidity | 95% max. |
| RF interference | No Alarm 20V/m |
| Mounting height | 2.6ft to 4ft (0.8m - 1.2m) |
| Mounting | Wall |
| Weight | 11b 2oz (520g) |
| Dimensions (H x W x D) | 9.16 x 2.16in x 5.04in |
| Weatherproof | IP55 |

