Intrusion

Outdoor protection perimeter
Quicker and earlier responses to intrusion events help avoid damages to your property.
Perimeter sensors: the ideal solution for all your outdoor security needs

As part of UTC F&S’ comprehensive portfolio of fire and security products, our perimeter sensors help you to protect the outside of your premises.

Outdoor environments can be unstable and easily affected by changes in the weather and unpredictable moving objects. Our perimeter systems allow you to have advanced warning and quicker response to events, subsequently reducing any risks of potential damage.

We can find the most suitable solution to meet your needs, be it for a large or small application.

Depending on the outdoor environment and its size, we can find the most suitable solution to meet your needs.
**SB & PB series**

The SB and PB series of active infrared beams detect intruders as soon as they enter a protected area and before they can reach people or gain access to valuable assets. Active infrared beams provide a high level of security for all applications. The installation time is reduced by providing beams which are easily aligned. Additional complementary accessories help create the ideal solution for your needs.

Crossing the active infrared beams that surround the designated protected area triggers an alarm.

**Advantages**
- Protection of a specifically designated field while maintaining freedom of movement for those inside
- Unaffected by electromagnetic waves and signals
- Modular system for both beams and pillars

**Accessories**
- SB11/16/21/26/31 Kit for 2-sided view
- SB53 Socket for SB series pillar
Active infrared beams

### SB series
**Beams**

**Features**
- Receiver and transceiver in one module
- No gaps in detection between modules thanks to interconnectivity option (available for all models except SB4200-N)
- Integrated alignment tool (visual/audible)
- 4 selectable channels
- Disqualification
- Full range of pillars and accessories available

**Order code**
- SB250-N AIR stand alone twin beam, 50m range
- SB2100-N AIR stand alone twin beam, 100m range
- SB450-N AIR stand alone quad beam, 50m range
- SB4100-N AIR stand alone quad beam, 100m range
- SB4200-N AIR stand alone quad beam, 200m range

### PB series
**Beams**

**Features**
- 2/4 beam active infrared (AIR)
- Outdoor range up to 200 m
- 4 selectable channels
- Disqualification
- Even range of beams without the cover allowing direct fit in a beam tower

**Order code**
- PB501 Twin AIR beam 20m outdoor/40m indoor
- PB511 Twin AIR beam 40m outdoor/80m indoor
- PB521 Twin AIR beam 60m outdoor/120m indoor
- PB601 Outdoor Quad AIR beam 50m
- PB611 Outdoor Quad AIR beam 100m
- PB621 Outdoor Quad AIR beam 200m

### Pillars
**Features**
- Aluminium chassis
- Tamper switch included
- Base and cover included
- Cover support with clips and guide hoop
- 2 sided (360° view) convertible

**Order code**
- SB10 Empty pillar 1m
- SB15 Empty pillar 1.5m
- SB20 Empty pillar 2m
- SB25 Empty pillar 2.5m
- SB30 Empty pillar 3m

### SB18
AIR pillar climbing detector

### PB50-H
12V non polarity heater 250mA for beam tower

### PB50-T
Thermostat for beam tower

### PB50-AC180
Anti climb top tamper for 180°/360° beam towers

### PB50-AC360

### SB52
Power supply 230VAC to 12VAC & 12VDC

### BS121N
Sealed lead-acid battery 12V 1.2Ah VdS approved
MRW series

The MRW series microwave barriers are X-band microwave outdoor motion sensors used in high risk applications where the presence of the intruder absolutely needs to be reported, such as in prisons, military compounds and correctional institutions. Our dependable microwave technology products are unaffected by fog and heavy rain.

The microwave field created between transmitter and receiver surrounding the designated area detects intruders and can distinguish between their size and speed.

Advantages

- Unaffected by fog and heavy rain
- Covers large detection zone
- Use for high security applications
Outdoor microwave sensors

MRW series

Features
- Range: 50, 100 & 200 m
- Easy to align with optional alignment tool
- Delivered with post-clamps and cable-conduit
- Battery back up

Order code
The Netherlands, Belgium, UK, Denmark, Italy, Sweden, Ireland, Poland, Norway, Finland
- MRW50-F1 Outdoor microwave motion sensors, 10.5 GHz, 50m
- MRW100-F1 Outdoor microwave motion sensors, 10.5 GHz, 100m
- MRW200-F1 Outdoor microwave motion sensors, 10.5 GHz, 200m

France, Austria, Portugal, Czech Republic
- MRW50-F2 Outdoor microwave motion sensors, 9.9 GHz, 50m
- MRW100-F2 Outdoor microwave motion sensors, 9.9 GHz, 100m
- MRW200-F2 Outdoor microwave motion sensors, 9.9 GHz, 200m

Spain, Luxembourg
- MRW50-F4 Outdoor microwave motion sensors, 10.525 GHz, 50m
- MRW100-F4 Outdoor microwave motion sensors, 10.525 GHz, 100m
- MRW200-F4 Outdoor microwave motion sensors, 10.525 GHz, 200m

Accessories

MRW01 Alignment tool
MRW02 N Power supply 230 VAC/19 VAC with IP66 enclosure
MRW03 Pair of inox poles 120cm
BS122N Sealed lead-acid battery 12V 2.2Ah
DF series

Our DF series is a unique strain-sensitive intrusion detection system for outdoor perimeter security applications where a fence is already in place. Using signals generated by the minute flexing of a coaxial sensor cable, specific characteristic intrusion signatures are detected and analysed by a powerful microcomputer-based signal processor. In applications where the coaxial sensor cable is installed on a chain link or mesh fence, an intruder attempting to cut, climb over or lift the fence will be immediately detected.

By using a microphonic cable in the security application, an intruder attempting to climb over, cut or lift a fence, will immediately generate an alarm signal.

Advantages

- Ideal solution where there is a fence in place
- Cost effective
- Use for indoor and outdoor applications
- Unaffected by weather conditions (rain, fog and ice)
- Network option available for outdoor applications
Fence & roof protection sensors

Fence protection

**DF951**

**Features**
- Sensor processing capability for two independent zones, each with up to 300 m (984 ft) of active sensor cable
- Adaptive Algorithms virtually eliminate environmental nuisance alarms
- Configurable with laptop PC via direct USB connection or over the sensor network
- Built in audio module
- Compatible with existing Inteli-Flex® installations
- Detection parameters can be set and optimized independently for each zone
- Built in relays; optional network communication cards
- IP66/NEMA 4 Enclosure

**Network option**

**Features**
- Allows remote diagnostic facility and alarm collection
- Includes several management tools (Plot tool, Event Log tool, etc.) for centralized system monitoring and configuration
- Provides the choice of USB, Ethernet, or EIA-232 for connecting to the PC
- Redundant configuration option for critical applications available

**Order code**

- **DF955-C1** Multi-mode fiber (MMFO) comm card
- **DF955-C2** EIA-422 copper comm card
- **DF955-U** Fence protection network interface unit
- **DF955-SW** Network manager SW CD
- **KTP-12DCU-UK** Switching power supply, 1A, 12VDC

**DF851**

- Microphonic technology
- Uniform sensitivity over the entire length
- Easy to repair
- No special tools required for connections
- Can be used in conjunction with non-sensing coax
- No special handling or preparation are required
- Range of accessories available
- Can be run directly to a FlexPS/FlexPi processor

Roof / Wall protection

**DF450**

- Detects shock, impact and sustained attack
- Used on walls, roofs, ceilings, stock cages, floors and pipes
- Microphonic technology
- Selectable frequency response
- Up to 1,115 m² coverage per zone
- Built-in calibration indicator
- Can be configured using DIP switches or UCM software via USB
- Low power consumption

*DF450 indoor processor shares same accessories and microphonic cable as DF951

**Accessories**

- **DF950-CM** Universal Configuration Module (UCM) Software kit with interface cable
- **DF863** Splice and terminator kit for microphonic cable
- **DF852** Non-sensitive lead-in cable for microphonic sensor cable, 30m roll
- **DF962** Quick disconnect gate assembly kit
- **DF963** Gate bypass module, locally activated by keyswitch
- **DF964** Gate bypass module, remotely activated by computer control
Wired and wireless outdoor motion sensors

The standard outdoor PIR’s motion sensors and alarm triggers, both wired as well as wireless, are using two independent passive infrared detectors. They use quad pyro technology to deliver precise, reliable presence detection.

The standard outdoor dual technology motion sensors and alarm triggers, only the wired solution, are using two independent passive infrared detectors plus a microwave sensor module. All three of these sensors must be triggered in order for the detector to signal an alarm.

Besides the standard outdoor PIR and dual technology motion sensors, variants with active Infrared technology on board that will detect masking events of the detector, were added. They will detect masking events as required by the EN Grade III standard.

All these products are designed for use in pre-alarm systems. The hardwired variants can also be connected directly to a CCTV system, whereas the wireless variants will report the intrusion event back to the panel that needs to trigger the CCTV system.

Use PIR or dual technology to detect on the outside to protect what is on the inside.

Advantages

- Reliable solution for commercial and residential applications to generate a pre-alarm
- Hardwired variants can automatically switch the CCTV system on, when required
- Anti-Masking variants EN Grade III certified available
- Extremely flexible mounting characteristics
- Easy to install technology

Accessory

DI601-WT
Walk tester for DI601 and DDI602 series
Outdoor motion sensors

**DI601, DI601AM, DDI602 & DDI602AM series**

**Features**
- Technology used: Fresnel PIR (DI601) plus X-band radar (DDI602 Series)
- Additional technology used in Anti-Mask variants (DI601AM & DDI602AM Series): Active Infrared
- Electronic range setting: 10/20/30m
- Mounting height up to 6m
- Operating temperature: -30° to +65°C
- 10 to 70° detection angle
- Non-AM variants: 180° pan & 90° tilt for flexible installation
- AM variants: 90° pan & 45° tilt for flexible installation
- Sensor module is hidden
- Built-in selectable EOL resistor values
- High dust and humidity resistance (IP65)
- 5 year warranty

**Order code**
- DI601: Outdoor PIR 10/20/30m selectable
- DI601AM: Outdoor PIR/AM 10/20/30m selectable
- DDI602-F1: Outdoor dual technology detector 10.525 GHz 10/20/30m selectable
- DDI602AM-F1: Outdoor dual technology/AM detector 10.525 GHz 10/20/30m selectable
- DDI602-F2: Outdoor dual technology detector 10.587 GHz 10/20/30m selectable
- DDI602AM-F2: Outdoor dual technology/AM detector 10.587 GHz 10/20/30m selectable
- DDI602-F3: Outdoor dual technology detector 9.9 GHz 10/20/30m selectable
- DDI602AM-F3: Outdoor dual technology/AM detector 9.9 GHz 10/20/30m selectable
- DI601-WT: Walk tester for DI601 and DDI602 series

**TX-2810-03-4**

**Features**
- Technology used: Fresnel PIR
- Built-in UTC Fire & Security 860AM Gen2 transmitter module
- Electronic range setting: 10/20/30m
- Mounting height up to 6m
- Operating temperature: -25° to +65°C
- 10 to 70° detection angle
- 180° pan & 90° tilt for flexible installation
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 3 years battery life, extendable to 5 years

**Order code**
- TX-2810-03-4: Wireless outdoor PIR 868AM Gen2

**6910P, 6920P, 6921P**

**Features**
- Technology used: Fresnel PIR
- Attractive aesthetics
- 14 to 70° detection angle
- 90° pan & 45° tilt for flexible install
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 5 years warranty

**Order code**
- 6910P: Mini outdoor PIR
- 6920P: Mini outdoor dual (10.525 GHz)
- 6921P: Mini outdoor dual (10.587 GHz)

**TX-2821-03-4**

**Features**
- Technology used: Fresnel PIR
- Built-in UTC Fire & Security 860AM Gen2 transmitter module
- 14 to 70° detection angle
- 90° pan & 45° tilt for flexible install
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 3 years battery life, extendable to 5 years

**Order code**
- TX-2821-03-4: Wireless mini outdoor PIR 868AM Gen2