



UTC Fire & Security

A United Technologies Company

newborn

Intrusion Outdoor Protection Perimeter



Airports



Warehouses



Military bases



Commercial industrial



VIP Estates/Residences



Communications

Quicker and earlier responses to intrusion events help avoid damages to your property.



Borders

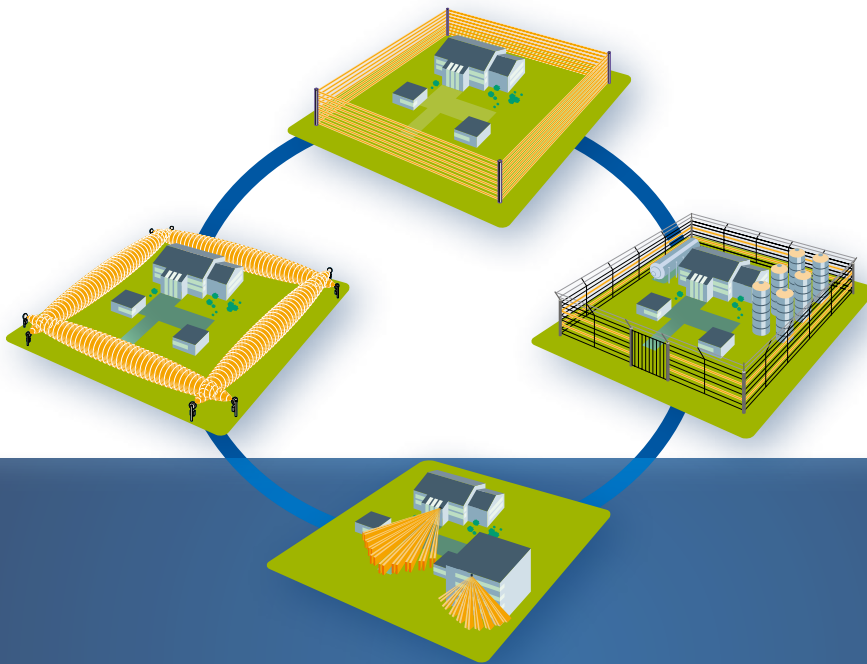


Correctional institutions

Perimeter Sensors: the ideal solution for all your outdoor security needs

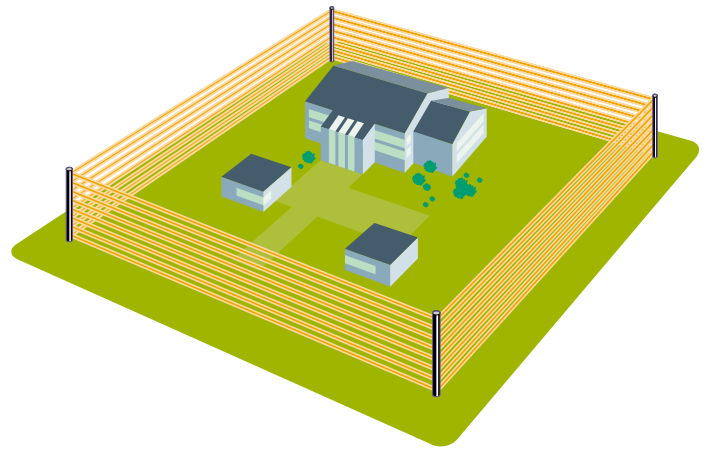
As part of UTCFS' comprehensive portfolio of fire and security products, our perimeter sensors help you to protect the outside of your premises.

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.



PB series

The 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

Active infrared beams



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
PB611M	Outdoor AIR Quad Beam (4 Lines), 100 m, without cover for pillar mount
PB621M	Outdoor AIR Quad Beam (4 Lines), 200 m, without cover for pillar mount



180°



360°



Pillars

Features

- 180° and 360° versions
- Ranging from 1m to 3m in height
- Comprehensive range of accessories allowing you to build your ideal solution

Order Code

PB10	1m – 180° AIR Beam Tower
PB15	1.5m – 180° AIR Beam Tower
PB20	2m – 180° AIR Beam Tower
PB30	3m – 180° AIR Beam Tower
PB11	1m – 360° AIR Beam Tower
PB16	1.5m – 360° AIR Beam Tower
PB21	2m – 360° AIR Beam Tower
PB31	3m – 360° AIR Beam Tower

Accessories



PB50-H

12V non polarity heater
250mA for beam tower



PB50-T

Thermostat for
beam tower



PB50-AC180 **PB50-AC360**

Anti climb top tamper
for 180°/360° beam
towers



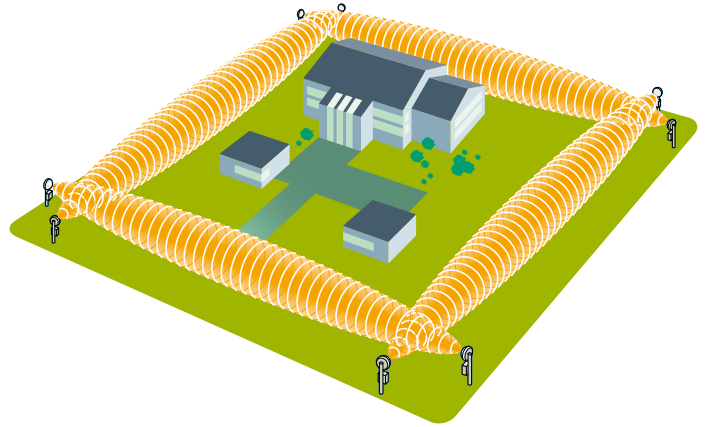
SB52

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



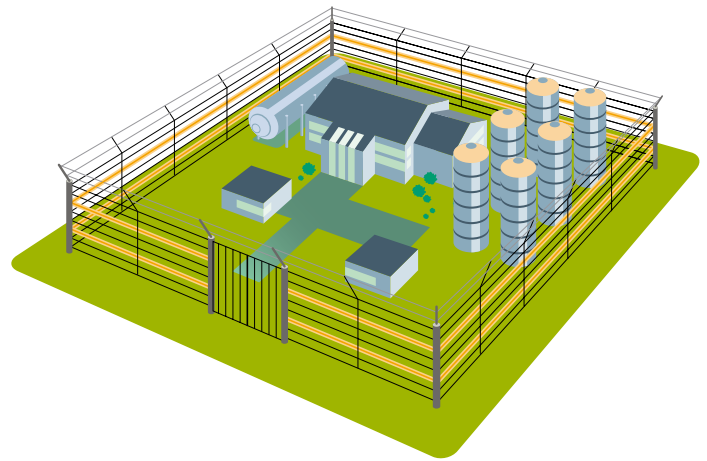
MRW02-N
Power supply
230 VAC/19 VAC
with IP66 enclosure



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 Itelli-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
- Built in audio "listen-in" capability

*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



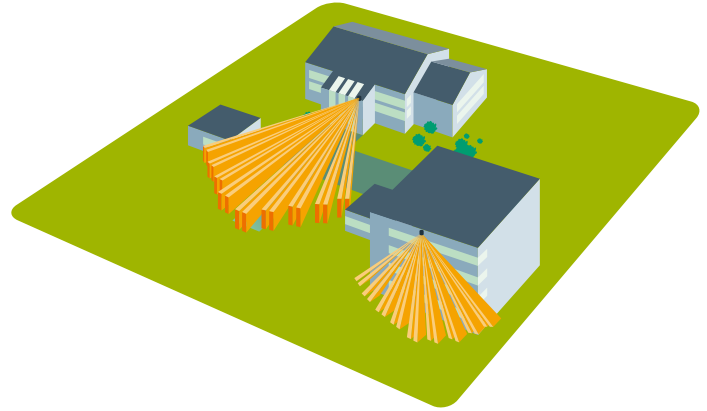
DF963

Gate Bypass Module, Locally Activated by Keyswitch



DF964

Gate Bypass Module, remotely activated by computer control



DI601 & DDI602 series

The DI601 Outdoor PIR Detector is an outdoor motion detector and alarm trigger that uses two independent passive infrared detectors.

The DI601 uses quad pyro technology to deliver precise, reliable presence detection.

The DDI602 Outdoor Dual Technology Detector is an outdoor motion detector and alarm trigger that uses 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.

Both products deliver precise, reliable presence detection and are designed for use in CCTV and pre-alarm systems.

Use PIR or Dual Technology
to detect on the outside in order
to protect what is on the inside.

Advantages

- Reliable solution for commercial and residential applications to generate a pre-alarm
- Automatically switches the CCTV system on, when required
- Extremely flexible mounting characteristics
- Easy to install technology

Outdoor motion sensors



DI601 and DDI602-series

Features

- Electronic range setting: 10/20/30m
- Attractive shape
- 10 to 70° detection angle
- 180° pan & 90° tilt for flexible installation
- Sensor module is hidden
- Built in EOL resistors
- High dust and humidity resistance (IP65)
- 5 year warranty

Order code:

DI601	Outdoor PIR 10/20/30m - 33/66/98ft selectable
DI601-WT	Walk tester for DI601 and DDI602 series
DDI602-F1	Outdoor Dual Technology detector 10.525 GHz 10/20/30m - 33/66/98ft selectable
DDI602-F2	Outdoor Dual Technology detector 10.587 GHz 10/20/30m - 33/66/98ft selectable
DDI602-F3	Outdoor Dual Technology detector 9.9 GHz 10/20/30m - 33/66/98ft selectable

Technical Data

	DI601	DDI602
Fresnel lens	28 zones for each detection element, which can be masked with the curtain sliders	
Customised optics	Double silicon shielded quad element eliminates 50,000 lux of white light	
Outputs	Silent, solid state, magnetically immune. N/O: Volt free relay, signal contact 24 VAC/DC at 50 mA with an integral 25 Ω series resistor. Alarm time 5 sec. N/C: Volt free relay, signal contact 24 VAC/DC at 50 mA with an integral 25 Ω series resistor. Alarm time 5 sec.	Silent, solid state, magnetically immune. Triggering by microwave AND PIR
Power input	9 to 15 VDC	
Current	7 mA (12 V nominal)	
Pulse count	1 or 2	
Control	Digital microprocessor with non-volatile memory	
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment	
Operating/storage temperature	-30 to +65°C	
EOL resistor values built-in	1, 2.2, 3.3, 4.7, 5.6, and 6.8 kΩ	
Mounting height	Variable up to 6m – Optimum height 3m for full range	
Approvals	EN 50130-5, Grade 2, Class IV Incert	

Accessory



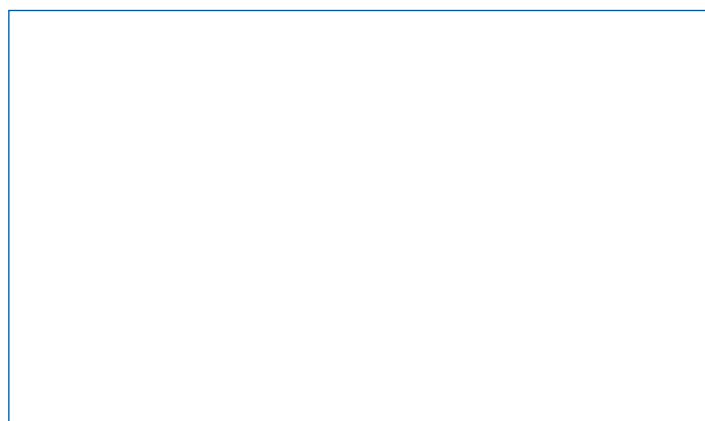
DI601-WT

Walk tester for DI601 and DDI602 series



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