



UTC Fire & Security

A United Technologies Company

newborn

Intrusion Outdoor Protection Perimeter



Borders



Commercial industrial



Military base



Correctional institution



VIP Estates/Residences



Communication



Warehouses



Airports

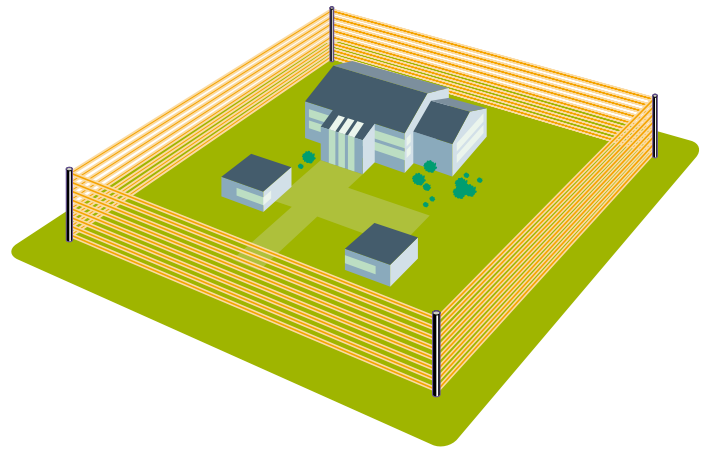
Perimeter Sensors: the ideal solution for your outdoor security needs

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.

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

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

Active infrared beams



SB series

Beams

Features

- 2 / 4 beam active infrared (AIR)
- Outdoor range up to 120 m
- 4 selectable channels
- On board regulated heater
- Disqualification

Order Code

SB250	AIR 2 beams 50 m incl. Heater
SB2100	AIR 2 beams 100 m incl. Heater
SB450	AIR 4 beams 50 m incl. Heater
SB4100	AIR 4 beams 100 m incl. Heater
SB4200	AIR 4 beams 120 m incl. Heater



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



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 1 m
SB15	Empty pillar 1.5 m
SB20	Empty pillar 2 m
SB25	Empty pillar 2.5 m
SB30	Empty pillar 3 m



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



SB11/16/21/26/31
Kit for 2-sided view



SB51
SB series alignment tool



SB52
Power Supply 230VAC to 12VAC & 12VDC



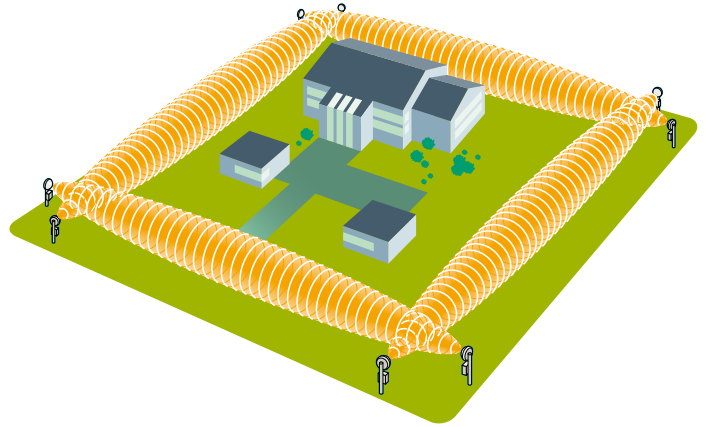
SB53
Socket for SB series pillar



SB18
AIR Pillar climbing detector



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



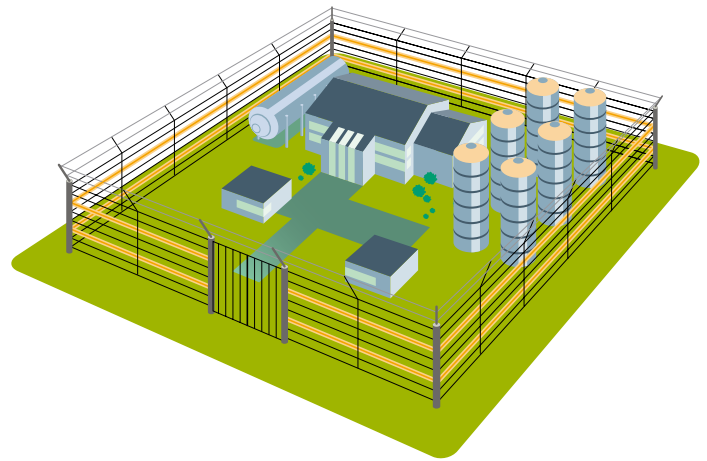
MRW02
Power supply
230 VAC/19 VAC
with IP66 enclosure



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
- Use for indoor and outdoor applications
- Unaffected by weather conditions (rain, fog and ice)

Fence & roof protection sensors



DF901-N

- Microprocessor controlled
- Adaptive algorithms
- Common Mode nuisance rejection
- Independent cut and climb threshold adjustments
- Aluminium enclosure



DF811S150-N

- Microphonic technology
- Uniform sensitivity
- Easy to repair
- Can be used in conjunction with non-sensing coax
- Can be installed directly on the fence or in conduit
- Range of accessories available



DF420

- Detects shock, impact and sustained attack
- Used on walls, roofs, ceilings, stock cages, floors and pipes
- Microphonic/ Strain-sensitive technology
- Selectable frequency response
- Up to 1,115 m² coverage per zone
- Built-in calibration indicator
- Simple installer adjustments
- Low power consumption
- Built in audio "listen-in" capability

DF901-N Technical Data

Power supply	18 - 56 VDC / 115 VAC or 230 VAC
Current consumption	70 mA
Built-in battery charger	Designed to float-charge a 12 VDC, Gel-Cell standby battery at 14 VDC. Charging current limited to max. 280 mA
Outputs Alarm Supervision/ Tamper	Potential free changeover contact (1 A at 30 VDC) Potential free changeover contact (1 A at 30 VDC)
Programmable features	Cut detection – independent count, time and threshold per zone Climb detection – independent duration, time and threshold per zone Preamp gain "Learn" – for matching fence to system
Cipher protection – programmable features	Common mode rejection - enable/disable Ambient compensation - enable/disable, values Peak trigger values Cut profile values
Ambient conditions	-40 to +70°C; relative humidity up to 95%, non-condensing
Sensor cable	The cable transducer operates up to 300 m in length and has uniform sensitivity over its entire length.

DF420 Technical Data

Power supply	10.5 VDC; max. ripple 2%
Current consumption	90 mA with LED display disabled 250 mA with LED display enabled
Outputs Alarm Supervision Tamper Audio	Changeover contact (NO or NC selectable) 500 mA at 28 VDC Changeover contact (NO or NC selectable) 500 mA at 28 VDC Tamper switch - 1 pole, 2 positions Microphonic sensor cable signal for audio amplifier
Controls	Frequency band selector: High - Low Sensitivity selection: 1 - 10 Count selector: 1 - 9 Sustained attack selector: 1- 5 sec. LED display for calibration en/disable
Dimensions (W x H x D)	Steel enclosure: 180 x 200 x 30 mm for indoor mounting only Ambient compensation - enable/disable, values Peak trigger values Cut profile values
Ambient conditions	-10 to +60°C; 95% relative humidity, non-condensing
Storage temperature	-50 to +70°C - relative humidity 95%, non-condensing

Accessories



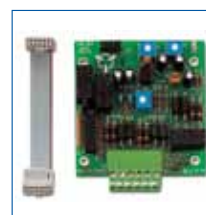
DF924
Programming Interface with Parameter Display



DF823-N
Cable Splice / Terminator Kit



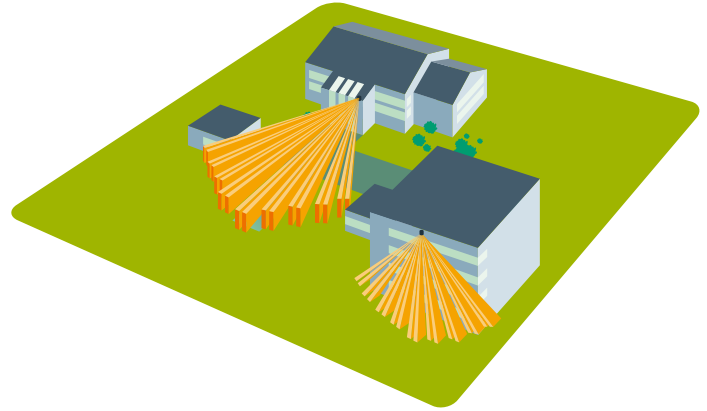
DF925-N
Self-test terminator



DF902
Plug-in audio module



DF912
Feed-in coax. cable with connector - 7.5 m



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

DI601

Technical Data

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.
Power input	9 to 15 VDC
Current	7 mA (12 V nominal)
Pulse count	1 or 2
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment
Operating/storage temperature	-30 to +65°C
Built in EOL resistors' values	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
EN approved	EN 50130-5, Grade 2, Class IV
Incert	approved

DDI602

Technical Data

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. Triggering by microwave AND PIR
	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.
Power input	9 to 15 VDC
Current	11 mA (12 V nominal)
Pulse count	1 or 2
Temperature compensation	Analogue (thermistor) and digital sensitivity adjustment
Control	Digital microprocessor with non-volatile memory
Operating/storage temperature	-30 to +65°C
Built in EOL resistors' values	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
EN approved	EN50130-5, Grade 2, Class IV
Incert	approved

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



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