Intrusion products overview

Our reputation for Aritech and Guardall intrusion detection products is strong within the industry.

We deliver precise and reliable intrusion detection and alarm reporting products for a wide range of applications, even in difficult conditions.

We produce an extensive range of detection sensors, alarm panels, communicators and peripheral devices, which meet and in many cases exceed the requirements of PD6662:2010.

This document gives a summary of intrusion products, with similar documents available to showcase our CCTV, transmission and fire product ranges.
Intrusion products overview

UTC Fire & Security manufactures a very comprehensive range of intrusion detection system solutions under the Aritech and Guardall product portfolios.

Some of our product ranges showcased in this guide include:

**Control panels**

- Control panels
- Fully integrated management software
- Control panel management software

**Detection**

- Magnetic contacts
- Personal attack (PA) devices
- Passive infrared (PIR) sensors
- Dual technology (DT) sensors
- Glass break sensors
- Shock sensors
- Seismic sensors
- CPNI approved sensors
- Perimeter sensors (active infrared, microwave, fence)
- Outdoor movement sensors

**Warning devices**

- Internal and external sounders
- Communicators

- PSU’s, cable and batteries

For more detailed information on any of our products, individual data sheets are available. Contact details are shown on the last page of this guide.
Aritech control panels

Aritech Advisor Advanced

Our Advisor Advanced product range is a family of products that has evolved from the long-running and successful Advisor CD and Advisor Master ranges.

The Advisor Advanced range captures the strongest assets from both these ranges and brings them together into a new, future-proof platform that enables ease of use, flexibility and reliability. It allows growth today as well as tomorrow.

The Advisor Advanced range is aimed at domestic and small to medium sized commercial applications. It is designed for use on PD6662:2010 Grade 2 and Grade 3 (Class II) Installations. There are 6 Panel versions available, offering either 32, 64 or 128 Zones.

The Advisor Advanced is a full hybrid system, and a combination of wired and wireless devices is possible. Each input can be assigned to a control panel zone.

Up to 128 zones are possible on the system, depending upon the panel capacity. For example, the ATS1000A could be set up to have 32 wired zones, 32 wireless zones or any combination such as 26 wireless zones and 6 wired zones.

A wide range of peripherals are supported on the system, including keypads, readers, expanders, wireless detectors and communicators.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Max Zones</th>
<th>Zones On-Board</th>
<th>Max Areas</th>
<th>Max Keypads/Readers</th>
<th>Max Zone Expanders</th>
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</table>
Aritech control panels

Aritech PIRcam

PIRcam is a wireless passive infrared detector, with integrated day/night colour camera. Up to 8 PIRcams are supported on our Advisor Advanced control panel.

When activated (either via the PIR or via any other configured detectors associated with the PIR camera), the camera captures a series of pictures.

These are sent wirelessly to the panel within around 2 seconds, and are then transmitted to the Alarm Receiving Centre (ARC), where 3 pictures would be received within around 20 seconds of the alarm activation occurring.

The pictures are all stored in the control panel within a panel expander board (PEB), which is able to store around 100 VGA or 400 QVGA images.

Any type of event can be configured to take a series of pictures (alarm, PA, fire, set/unset, access etc.). This offers many potential applications such as child safety, key holder safety, access monitoring and care/residential home applications. Pictures can also be remotely requested from an Alarm Receiving Centre, remote software, or via a mobile phone app.

Monitoring facility personnel can review the captured images prior to notifying the authorities. Armed with this information, respondents are better prepared to take appropriate action.

The reported event and associated pictures can also be seamlessly interfaced with MASterMind (MAS) ARC software. Pictures can also be sent to the end user in MMS format.
Aritech mobile phone apps

Our latest app for Advisor Advanced panels is now available for iOS, Apple’s mobile operating system, and also for Android devices via the Google play store.

The Advisor Advanced app provides home and small business owners with an easy way to control their security systems. The app can be used to communicate to multiple panels over Wi-Fi or GPRS.

The iOS smartphone app can now be downloaded free from the iTunes store for Apple devices, or the Google play store for Android devices.

The app allows users to remotely arm or disarm the security system, with full feedback of any faults or alarms within any area of the system.

The panel event log which shows the history of events occurring on the panel can also be remotely viewed from the app. Additionally, outputs can be remotely switched on or off, allowing remote locking / unlocking of doors or other devices such as heating or lighting systems.
Aritech control panels

Aritech Advisor Master

The Advisor Master ATS range is a complete family of control panels that all share the same features, software and peripherals, and only differ in enclosure size, number of zones and number of areas.

Advisor Master control panels are designed for use on PD6662:2010 Grade 3 (Class II) Installations. There are 3 panel versions available, offering up to 256 zones, and 16 areas.

The Advisor Master is a full hybrid system, and a combination of wired and wireless devices is possible. Each input can be assigned to a control panel zone.

The Advisor Master system also allows fully integrated access control of up to 64 doors, and 2000 access users, which can be increased to as many as 65,532 access users for large enterprise applications.

A wide range of peripherals are supported, including keypads, readers, expanders, wireless detectors, door controllers, lift controllers and communicators.

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<tr>
<td>Max Areas</td>
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<td>Max Keypads / Readers</td>
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<td>Max Zone Expanders</td>
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<td>Max Access Control Doors</td>
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</table>
Advisor management software

Advisor management software is a Windows client/server based fully integrated security management solution, primarily intended for end users. It allows UTC Fire & Security systems including intrusion alarms, access control, video and/or fire alarms on multiple sites to be integrated into and controlled from a single management package.

Access cards and authorities are very easy to set up from the application.

As well as providing the ability to control Advisor Advanced and Master panels, local monitoring and control of intruder, fire and access systems in conjunction with graphical maps is also a feature. Activations and/or events can be quickly and easily verified using the integrated video capability. The screen layouts of the system are highly customisable with multiple client screen views supported over multiple monitors, either locally and/or remotely.

Event driven video allows video verification when intruder or fire alarm or access events occur.

A powerful report printing facility is also included.
Fully integrated management software

**Intrusion**
- Advisor Advanced
- Advisor Master
- Verex (in development)
- Guardall (in development)

**Video**
- TruVision
- Analogue
- TVR10
- TVR11
- TVR41
- Hybrid
- TVN10
- TVN20
- TVN21
- TVN50
- TVR60 IP

**Fire**
- Ziton ZP2 2012-2
- Aritech 2010-2
- Kilsen KFA
- Aritech FP1200 and FP2000

**Access**
- Advisor Master
- Verex (in development)
- Guardall (in development)
Aritech control panel management software

ATS8500 standalone downloader software

ATS8500 provides a simple windows based programming and management tool, which simplifies the programming and controlling of Advisor Advanced control panels.

A PC running ATS8500 can be connected to a control panel, either via local USB, remotely (via the built-in PSTN dialler) or GSM (via ATS7310), or via Ethernet on the ATS1000A-IP / ATS2000A-IP panel variants.

ATS8500 allows a command & control session to take place with an Advisor Advanced control panel. It provides a complete overview of the panel status including zone, area, communication path, etc. ATS8500 also allows configuration of the control panel.

A powerful report printing facility enables quick reference forms for trouble shooting, expansion, programming and client administration. It also features a range of flexible history reports.

ATS8100 Titan software

ATS8100 Titan provides a simple windows based programming and management tool, for programming and controlling Advisor Master control panels. A PC running Titan can connected to a panel via PSTN, RS232 (via ATS1801), Ethernet (via ATS1801 & ATS1809), or GSM (via ATS7310).

As well as providing the ability to control and program Advisor Master panels, local alarm monitoring in conjunction with graphical maps is also possible. A powerful report printing facility enables quick reference forms for trouble shooting, expansion, programming and client administration. It also features a range of flexible history reports.
Detection
magnetic contacts / PA’s

Magnetic contacts

Our range of magnetic contacts are available to meet the requirements of Grade 2 and/or Grade 3 Systems. An extensive range of contact types are available including surface mount, recessed flush mount, overhead mount, and ‘pull-apart’ technology.

We use the highest quality components and materials. Reed legs are plated with rhodium or ruthenium, and hermetically sealed in dry nitrogen. This offers superior protection against sticking and provides a moisture free environment therefore preventing corrosion.

Our Grade 3 magnetic contacts are high security contacts which meet requirements for preciseness of opening distance, magnet polarisation, and strength of the magnet.

Although contacts are generally supplied as ‘Normally Closed’ (NC) loops, some of our contacts are available with built-in Aritech resistors (4.7K). This makes installation and wiring far quicker and simpler, when used with our Aritech Advisor Advanced / Master control panels.

For harsher applications, we have a range of contacts available with a wider operating gap, for use in heavy duty applications, and with armoured cable included.

Personal Attack (PA) buttons

A range of personal attack devices are available, including single or dual push PA buttons.

A range of wireless PA devices (868 MHZ) are also available for our control panels.
Movement detection
passive infrared

Passive infrared (PIR) sensors – fresnel optics

Our DesignLine series is a brand new range of fresnel optic volumetric motion sensor, using a PIR element and digital signal processing. This series is suitable for residential and light commercial environments, with Grade 2 and Grade 3 models available.

The DesignLine series builds customer value by meeting customers’ security needs while respecting budget constraints. This range is quick to install and comes with a stylish housing. It provides detection for a variety of ranges (12 or 15 metres). There is also an anti-mask model using active infrared technology for Grade 3 applications, which allows the unit to provide warning of any attempts to mask or defeat the sensor. A 360 degree model also allows use in ceiling mount applications. There is even a ‘PI’ variant with smart pet immunity up to 35kg, making this series all the more attractive.

A range of accessories are available including fresnel lens kits, which allows the detection coverage to be converted to provide long range or curtain coverage, and an optional rear mounting bracket.

In launching our new range of fresnel PIR motion sensors, we have listened and are responding to end users’ needs. These motion sensors deliver easy solutions for installers, being equipped with EOL resistors and providing flexibility in installing height and are the ideal security solution for residential and light commercial applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Grade</th>
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<tbody>
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<td>12 metre</td>
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<td>6540PI</td>
<td>12 metre</td>
<td>2</td>
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<td>6550</td>
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<td>6550AM</td>
<td>15 metre</td>
<td>3</td>
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<tr>
<td>6530CM</td>
<td>9 metre, ceiling mount</td>
<td>2</td>
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</table>
Movement detection
dual technology

Dual Technology (DT) sensors – fresnel optics

To complement our DesignLine fresnel PIR's, we have a new range of dual technology motion sensors, intended for use in residential and commercial environments.

The DesignLine series builds customer value by meeting customers’ security needs while respecting budget constraints. This range is quick to install and comes with a stylish housing. It provides detection for a variety of ranges, including up to 360 degrees of coverage for ceiling mount applications and an EN Grade 3 certified variant with the anti-masking functionality on board. It even has a variant with smart pet immunity up to 35kg, making this series all the more attractive.

These motion sensors deliver easy solutions for installers by providing flexibility in installing height. Additional features include integrated EOL resistors and a separate walk test input line to allow remote control of the detector LED. They are the ideal security solution for residential and light commercial applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Coverage</th>
<th>Grade</th>
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<tbody>
<tr>
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<td>6650AM</td>
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<td>Grade 3</td>
</tr>
<tr>
<td>6630CM</td>
<td>9 metre ceiling mount</td>
<td>Grade 2</td>
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</tbody>
</table>

Accessories

A range of accessories are available including fresnel lens kits (for the Designline PIR’s), allowing the detection coverage to be converted to provide either long range or curtain coverage. An optional rear mounting bracket is also available.
Movement detection
passive infrared

Passive infrared (PIR) sensors – mirror optics

We derive our expertise from the acquisition of Aritech, a company with over 35 years of experience in mirror optic design. Aritech sensors use precision mirror optics, and are used in the world's most high profile locations.

Our unique ‘gliding focus’ mirror optics provide smooth, continuous and automatic target focus over the entire detection range.

4-D signal processing technology allows the PIR to intelligently analyse a signal pattern and distinguish between real human movement and false alarm hazards.

The PIR processing is resistant to false alarms by analysing the size, shape and speed of successive signals.

Sophisticated signal processing techniques such as our 5-D processing featured on the EV1000 series distinguish accurately between true security breaches and environmental signals such as reflected sunlight.

Sophisticated vector algorithms on VE product ranges can easily eliminate nuisance signals, and even determine the direction of motion of an Intruder.

Our VE736 / VE736 products combine 20 metre volumetric detection together with a 60 metre long range curtain beam. Anti-mask versions are also available.
Movement detection

dual technology (DT)

Dual technology (DT) sensors – mirror optics

Our dual technology motion sensors offer peace of mind in harsh and unstable environments, such as areas that generate strong heat flows.

By combining passive infrared with microwave technology, accurate detection, precise coverage and reliable false alarm immunity is provided.

Traditional dual technology sensors typically generate false alarms from microwave detecting through walls and being activated by adjacent office activity or street traffic. Our range controlled radar (RCR) eliminates this problem with precise range control and microwave accuracy.

Grade 3 anti-masking sensors

We provide the best available Grade 3 anti-masking technology in our PIR, vector and dual technology sensors. We use patented active infrared (AIR) technology to provide protection not only outside the detector, but inside it too – exceeding EN50131 Grade 3 requirements.

This provides superior protection against sabotage techniques such as spraying, covering and device penetration. Our sensors will detect the widest range of materials, sprays and lubricants.

EV1116AM is a 16 metre Anti-Masking PIR
VE1120AM is a 20 metre Anti-Masking PIR
DD669AM is a 8.5 metre ceiling mount dual tech

Each of these product is CPNI approved, for UK Government use. For further details regarding the CPNI grading on these or other UTC products, please contact CPNI.
## Movement detection summary

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<th>Technology Type</th>
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Detection glass break shock/acoustic

Glass break sensors
We produce an extensive range of glass break detection products. These include ‘stand-alone’ shock sensors, shock sensors which require a separate analyser, and ‘stand-alone’ acoustic glass break sensors.

Stand-alone shock sensors
The GS620N stand-alone shock sensor offers a versatile solution for detection of forced entry through windows or doors, with a detection range of up to 6 metres. The sensor includes adjustable gross attack and pulse count sensitivity.

Acoustic glass break sensors
The GS903N acoustic glass break sensor combines high false alarm immunity and excellent detection by recognising the exact frequency pattern generated by glass breaking. Instead of listening for a loud sound at one or two characteristic frequencies, the GS903N listens at 30 points across the glass break frequency spectrum.

This not only enables it to discriminate common false alarm sources, but also ensures detection of even the quietest of breaks so it can be used with blinds or light curtains. The sensor allows coverage of plate, laminated, tempered and wired glass.

For prestigious applications, a flush mount version of the sensor is also available (GS913N). An optional hand-held tester (GS905) is also available which generates real glass break sounds, thus ensuring correct coverage of the sensor.
Detection seismic

VV600-plus and VV602-plus seismic sensors

The Aritech VV600 plus and VV602 plus range of seismic sensors are designed to detect attempts to break into vaults, safes, night deposit boxes, automatic teller machines (ATM's) and other reinforced physical areas such as data storage and filing cabinets.

VV600 plus is designed for use on vaults and safes
VV602 plus is designed for use on ATM's and night safe deposit boxes

These seismic detectors react to the characteristic vibration patterns of all known forms of attack, such as ‘breaking-and-entering’ tools, such as hammers, drills, diamond saws, hydraulic pressure tools and thermal tools like welding torch and thermal lance.

They sense vibrations that occur within a 3 to 14 metre radius of where they are mounted, depending on the material and design of the protected object.

At the same time the seismic detectors allow for normal human activity around the protected area without the risk of creating unwanted alarms. To achieve this high level of accuracy, each detector features ‘three detectors in one”. All three channels (counting, integration, and explosion) analyse the signal frequencies, duration and amplitude, in order to differentiate between random environmental disturbances and real intruder attack. The end result is excellent detection and superior false alarm immunity.

A full range of accessories are available including mounting / welding plates, keyhole protection kits, tampered junction box, armoured cable kit, and test transmitters.
Detection seismic

VV700 seismic sensors

The Aritech VV700 is the first fully digital seismic detector using a microprocessor that gives 100% digital signal analysis. The VV700 is completely adaptable for all types of applications, without any compromise in detection ability.

The VV700 detects vibrations that occur within a 3 to 14 metre radius, dependent on the material and design of the protected object.

The detector reacts to the characteristic vibration patterns of all known forms of attack such as ‘breaking and entering’ tools such as hammers, drills, diamond saws, hydraulic pressure tools and thermal tools such as welding torches and thermal lances.

As the detector is programmed on site, it can be perfectly adapted to the environment and false alarms minimised. With this new technology the detector allows for several different signal analysis programmes in the same hardware which previously allowed only one. This makes the VV700 a fully universal detector suitable for all known applications such as safes, vaults, vault doors, ATM's, night safe deposit boxes, weapon stores etc.

A Windows based configuration tool is available (SCM700) or optionally with the necessary connection lead (VVK700).

The ‘seismic configuration manager allows the VV700 detection characteristics to be chosen based on the application, by choosing from one of five pre-programmed detector modes. This allows optimum detection performance for the detector, whilst minimising the risk of false activations.

SCM700 also allows access to features such as background signal levels, verification of the detector settings, and analysis of on-site performance measurements etc.

VV700 is approved for UK Government use. For further details regarding the CPNI grading on these or other UTC products, please contact CPNI.
Detection seismic

Burgoguard 9 (BG9) seismic sensors

The Guardall BG9 is an easy to install multi-purpose high security seismic sensor.

A crystal microphone detects the slightest vibrations of the structure where the detector is mounted, and converts them into electrical signals. Only vibrations with defined signal parameters will generate an alarm.

The unit is designed to detect vibration and heat and is suitable for use in various applications including strong rooms, safes, cash dispensers and automatic ticket vending machines. Sensitivity can easily be adjusted from 30dB to 60dB to match the specific application. Different keyflaps are also available depending upon the application.

Temperature sensors also protect against “extreme cold” and “high temperature” thermic lance type attacks. Short duration, but high intensity signals such as explosions are detected and processed by a special circuit. The detector is fully tamper protected against removal from wall and removal of cover.

Optional Windows based PC software allows accurate adjustment of all parameters, and may therefore be useful in high security applications.

Burgoguard 9 is approved for UK Government use. For further details regarding the CPNI grading on these or other UTC products, please contact CPNI.
Our CPNI approved products

Which UTC Fire & Security products are CPNI approved?

Protective security is ‘putting in place, or building into design, security measures or protocols such that threats may be deterred, detected, or the consequences of an attack minimised’.

UTC offer a number of products which are CPNI (Centre for the Protection of the National Infrastructure) approved, and may be used on high risk sites protecting the Critical National Infrastructure.

The following detection products are approved for UK Government use.

Aritech EV1116AM
16 Metre volumetric AM PIR (listed as GE Security)

Aritech VE1120AM
20 Metre volumetric AM PIR (listed as GE Security)

Guardall PQ15AM
15 Metre volumetric AM PIR
Our CPNI approved products

Aritech DD669AM
20 Metre ceiling mounted AM dual tech

Aritech VV700
Seismic sensor (listed as GE Security)

Guardall BG9
Seismic sensor

Aritech GS930
8.5m acoustic glass break sensor

Further information on any of the above products is available from UTC upon request.

Please contact CPNI if you are a CPNI installer / operator, and need to establish the level of protection for any of these products. For further information, visit www.cpni.gov.uk
Detection perimeter

Perimeter sensors

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

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

Typical applications could be airports, military bases, VIP residences, vehicle storage sites, and warehouses.

PB active infrared beams

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 greatly reduced by providing beams which are easily aligned.

The PB series is available in a selection of models covering between 50 and 200 metres, in twin beam and quad beam versions. A wide range of accessories, including columns and heaters are also available.
SB active infrared beams

Our SB series provide many additional features over and above more conventional active infrared beam systems.

Unique features include combined transmitter and receiver functionality within each housing, allowing superior coverage and detection. Alarm / fog outputs can be connected on either or both ends of the protected beam run.

100Hz dual interlaced scanning means that up to 4 beam sets in a column use just 1 channel, reducing potential crosstalk and interference between other units and columns.

Superior detection is assured as the units communicate with each other (within each column), and this allows ‘across unit’ alarm confirmation between 2 adjacent beams.

Interconnected modules also greatly simplifies the wiring within each column, as the alarm and fog disqualification outputs are signalled out via a nominated ‘master’ module rather than having to be ‘series’ connected between all individual units within a column.

A one man alignment mode allows the best possible alignment to be achieved by just one person, and this is possible from each end of the AIR beam run.

Integrated heaters are also included in every unit as standard.
Detection perimeter

DF series fence sensors

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.

Outdoor microwave sensors (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.

Available in models to cover 50, 100 or 200 Metre distances, set-up is simple with an optional alignment tool. A range of optional accessories is also available.
Detection
outdoor movement

DI601 & DDI602

The DI601 PIR Detector is an outdoor motion detector that uses two independent passive infrared detectors, within one housing. This quad PIR technology delivers precise reliable detection, whilst avoiding false alarms.

The DDI602 includes a microwave sensor module which provides a higher level of detection as all three sensors (2 PIR’s and Microwave) must be activated in order to trigger an alarm.

Functional in temperatures from –30°C to +65°C, these detectors are all-season proof. IP65 approval assures superior detection in dusty and humid environments.

Programmable detection ranges of 10m, 20m or 30m, and variable pulse count are also included.

Both models allow selection of in-built end-of-line (EOL) resistor values. Accurate detection pattern coverage is assured, via an integrated dual axis adjustment, allowing 180° pan and 90° tilt.

The TX2810 series is an outdoor wireless PIR, based on our DI601 above. It is for use on our Advisor Advanced / Master control panels where wireless integration is needed.

The hardwired variants can also be connected directly to a CCTV system if required, whereas the wireless variants can report the intrusion event back to the panel that needs to activate the CCTV system.

New outdoor AM models – DI601AM & DDI602AM-F2

Besides the standard outdoor PIR and dual technology motion sensors, variants with active infrared technology included are available, that will detect attempts to mask the detector as required by EN Grade 3, Class IV

Models are available in PIR (DI601AM) and dual technology (DDI602AM-F2) variants
Detection
outdoor movement

New mini outdoor range
Our new mini outdoor range of detectors offer 15 metres range to comply with Grade 2,
class IV installations.

Our mini outdoor PIR (6910P) uses two independent passive infrared detectors. Both
sensors must trigger to cause the detector to signal an alarm. It uses quad pyro technology
to deliver precise, reliable presence detection.

Our mini dual tech variant (6921P) uses two independent passive infrared detectors plus a
microwave sensor module. All three sensors must trigger to cause the detector to signal an
alarm. They use triple detection technology to deliver precise, reliable presence detection.

The TX2821 is a mini outdoor wireless PIR, based on our 6910P above. It is for use on our
Advisor Advanced / Master control panels where wireless integration is needed.

DDI78-EXF1 explosion proof Sensor
The DDI78-EXF1 is an ATEX certified explosion proof outdoor microwave sensor for use in
high risk hazardous locations such as on petroleum / chemical storage sites.
Detection
outdoor movement

New outdoor curtain movement detector

Our new outdoor curtain detector is a Grade 3 motion sensor that uses two independent passive infrared detectors and a microwave sensor module. All three sensors must trigger to activate the detector.

The detector features active infrared technology which detects an anti-masking attempt of the detector. Due to the compact enclosure, it can easily be integrated within residential applications.

Easy and quick to install, integrated DIL switches allow the installer to select one of four predefined detection ranges depending on the application (3, 6, 9 or 12m range). Programmable options include a variable pulse count and LED enable/disable functionality.

The product concept caters for 3 possible installations: flat on the wall, 90° perpendicular to the wall using the T-bracket that comes together with the standard detector or using a swivel bracket that is available as an optional accessory.
Warning devices
sounders

Sounders

We produce a comprehensive range of high quality external and internal Sounders.

**AS580XXL external sounder**

AS580XXL ‘The level’ is a twin-tone external sounder.

Housed within a highly weather resistant IP55 low profile polycarbonate box with integrated strobe, it also includes a spirit level on the back plate to allow correct alignment during installation.

Tamper protection is included which activates upon removal of cover or removal from mounting surface.

**AS614 external sounder**

AS614 is a high security twin-tone external sounder. Housed within a highly weather resistant casing, it also features an additional inner steel enclosure which offers protection against attempts to overcome the sounder by ‘foam’ filling.

**AS270 internal sounders**

‘AS sapphire’ is an internal sounder with individual alarm and entry/exit tone inputs.

We also offer the AS270 range of internal sounders with a variety of models providing single or twin tone sounder, and optional strobe.

AS270 is a 1 tone internal sounder, without strobe
AS271 is a 1 tone internal sounder, with strobe
AS272 is a 2 tone internal sounder, without strobe
AS273 is a 2 tone internal sounder, with strobe
PSU’s
We offer a range of standalone and integrated power supplies, with models for both intrusion and fire systems. Comprehensive protection is built-in as standard including mains transient filtering, electronic output overload protection and fuses on the load and battery outputs. We also offer a range of EN54 graded PSU’s for fire applications.

PM811N is a 12V, 1A standalone PSU, available in either Grade 2 or 3 variants.
PM812N is a 12V, 1.5A standalone PSU, available in either Grade 2 or 3 variants.

Cables
We offer a range of cables including 4, 6, 8, 10 and 12 core cables, in 100 or 200 Metre lengths. We also provide a range of halogen free cables. Halogen free cables do not produce dangerous gas/acid combinations when exposed to flame.

Batteries
We supply a wide range of batteries typically offering voltages of 6 and 12V DC and ranging from 1.2AH to 65AH capacities.
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