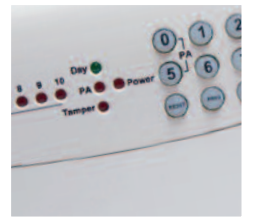
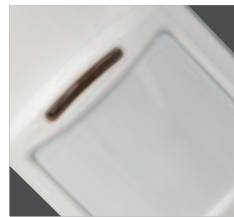




CHALLENGER

YOUR PARTNER IN A MORE SECURE FUTURE

Challenger Security Product Portfolio



Intruder Alarms

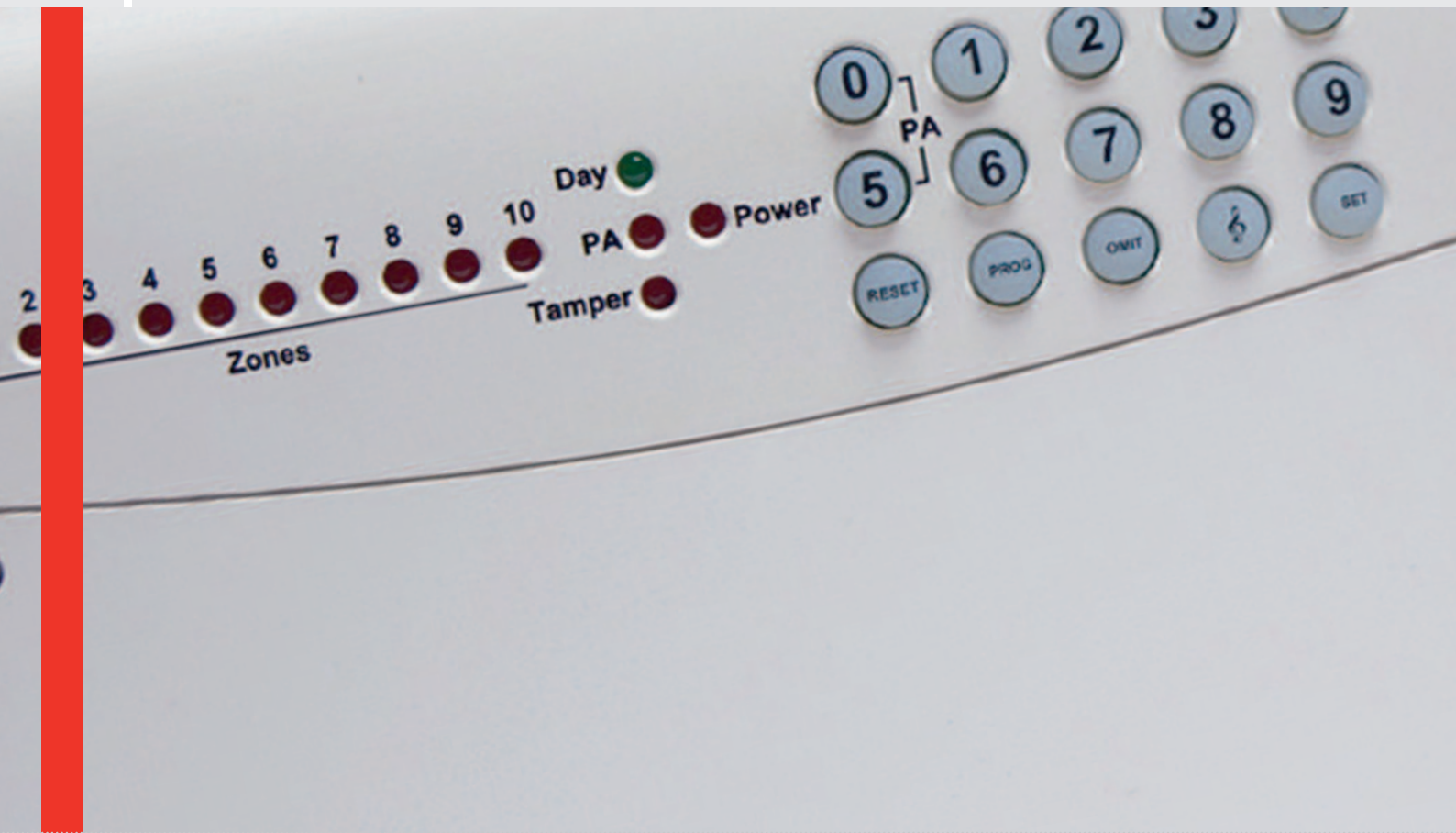
Alarm Detection

Batteries

Wireless Alarms

Security Lighting

Edition 6
2012/2013



Welcome to the 2012/2013 Challenger Product Portfolio

Established over 20 years, Challenger Security Products has earned an enviable reputation offering a fantastic range of security and lighting products. We pride ourselves on providing a full, one step solution to your security needs with a constant product development programme to embrace the latest technology.

Experienced and friendly staff are on hand to assist in choosing the right equipment for the job and peace of mind is assured from our own technical support team.

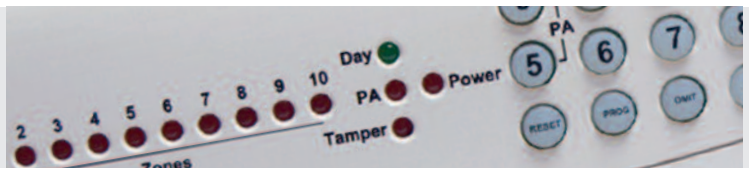
If you can't see what you need, please give us a call and we will do our utmost to assist you. Our website www.challenger.co.uk also showcases all new products released, so please look us up whilst online.

Challenger, your partner in a more secure future.

Contents

4 - 5	Force 10 Alarm Panel Range
6	Alarm Kits
7	Batteries
8	Alarm Detector Terms
9	PIR Detection
10 - 12	Other Detection
13	External Sounders
14	Internal Sounders & Speakers
15	Power Supplies
16	Ancillaries
17	Wireless Alarm Kits
18	Wireless Alarms
19	Wireless Ancillaries
20	Wireless Camera PIR Floodlights
21	Camera PIR Floodlight
22	PIR Floodlights
23	Lamps & Bulkheads
24 - 25	Security Lighting PIR Detection

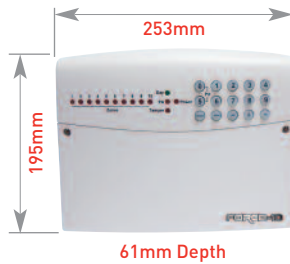
Force 10 Alarm Panels



- 10 zone alarm panel
- Chime facility
- Low battery indication
- Up to 4 remote keypads
- 1 full set and 2 part set options

- Door bell feature
- 2 user codes + holiday + engineer
- Keypad PA facility
- Communicator output on selected models

10 zone panel c/w onboard keypad

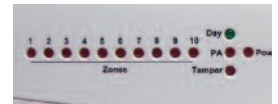


AP10LED

10 zone panel c/w onboard keypad

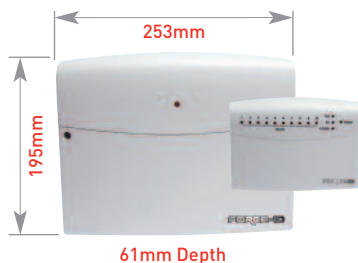
AP10LEDC

10 zone panel c/w onboard keypad and communicator output



LED indication

10 zone panel c/w remote LED keypad



AP11LED

10 zone panel c/w LED remote keypad

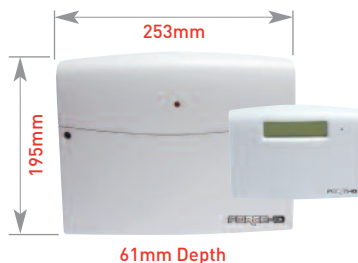
AP11LEDC

10 zone panel c/w LED keypad and communicator output



LED indication

10 zone panel c/w remote LCD keypad

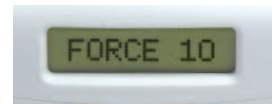


AP11LCD

10 zone panel c/w LCD remote keypad

AP11LCDC

10 zone panel c/w LCD keypad and communicator output



LCD indication

Remote LED Keypad
130mm (w) x 90mm (h)



AP11RKP

Remote LCD Keypad
130mm (w) x 90mm (h)



AP11RKPL

AP11LCD Radio Fob Easy Set

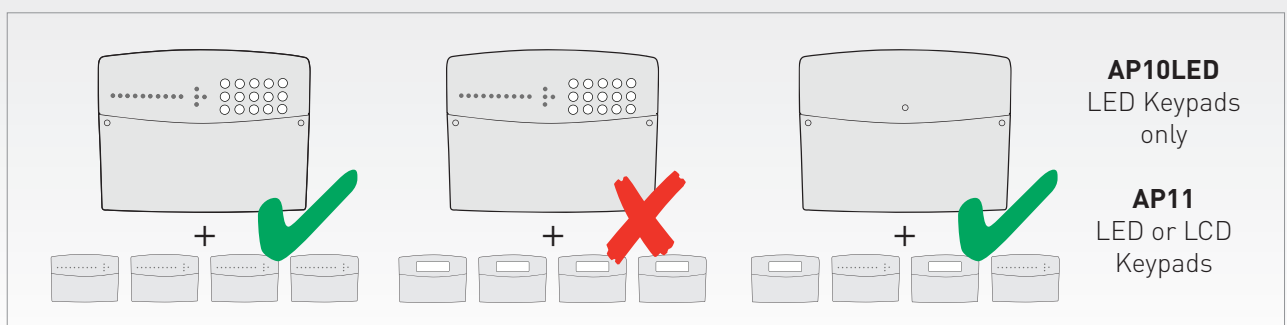


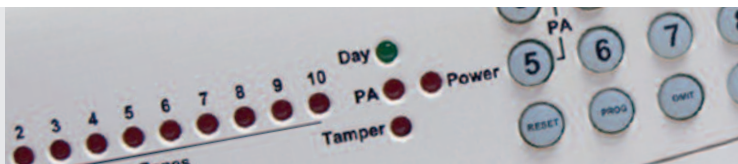
APFES

12V 2ah SLA Battery
(Maximum capacity for the
Force 10 panel range)




AA61





Force 10 Alarm Panel Specification

<div>  <p>Alarm Panel Range</p> </div>		AP11LED	AP10LED	AP11LCD	AP11LEDC	AP10LEDC	AP11LCDC
Type of alarm panel	Microprocessor based control unit	●	●	●	●	●	●
Housing	Polycarbonate	●	●	●	●	●	●
Entry / Exit delay	default 45 seconds, both programmable	●	●	●	●	●	●
Alarm zones	10 zones, all programmable	●	●	●	●	●	●
LCD Remote keypad facility	Up to 4 keypads maximum, per panel	●		●	●		●
LED Remote keypad facility	Up to 4 keypads maximum, per panel	●	●	●	●	●	●
16 Event Memory	LED type keypad only	●	●		●	●	
250 Event Memory	LCD type keypad only	○		●	○		●
Global Tamper	-ve loop	●	●	●	●	●	●
Bell output	DC12V, max current: 300mA	●	●	●	●	●	●
Bell Timer	Adjustable 1-20 minutes	●	●	●	●	●	●
Strobe output	DC12V latching	●	●	●	●	●	●
External speaker output	DC12V 16ohm, max current: 260mA	●	●	●	●	●	●
Set+ output	0V in day mode, 13V in set mode	●	●	●	●	●	●
Bell box duration	Default 14 minutes programmable	●	●	●	●	●	●
Panel current consumption	Standby: 100mA, Alarm: 350mA	●	●	●	●	●	●
LED REM Keypad current consumption	Standby: 40mA, Alarm: 70mA	●	●	●	●	●	●
Auxillary voltage output	13.8V DC stabilized (+/-5%) up to 350mA	●	●	●	●	●	●
Battery capability	DC12V, up to 2.1Ah	●	●	●	●	●	●
Charge voltage	13.8V DC	●	●	●	●	●	●
Panel PCB fuses	1.6A, 20mm quick blow	●	●	●	●	●	●
Mains input fuse	1.6A, 20mm quick blow	●	●	●	●	●	●
Total current output	1A when supported by a fully charged battery	●	●	●	●	●	●
Mains supply voltage	230V AC (+/-10%) 50Hz max load 0.5A	●	●	●	●	●	●
Ambient operating temperature	0°C - 40°C	●	●	●	●	●	●
Panel dimensions	253 x 195 x 61mm	●	●	●	●	●	●
Remote keypad dimensions	130 x 90 x 30mm	●	●	●	●	●	●
Complies with European Standard	EN50131 Grade 1	●	●	●	●	●	●
Communicator Output	Central monitoring facility				●	●	●

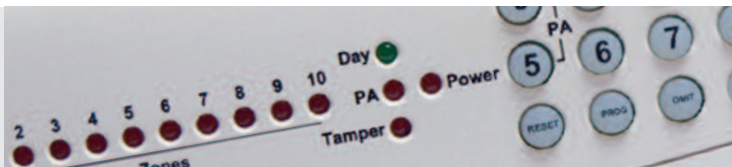
○ Facility available if using an additional LCD type keypad

LED	Light Emitting Diodes display zone number etc.	
LCD	Lead Crystal Display gives more information as text	
Chime	Internal speaker activates when devices are triggered	
End of Line Wiring	Allows 2 cores to be used for zone and tamper (resistor required)	
Keypad PA	Pressing two buttons on the keypad results in Panic Attack mode, turning on sounders until system is reset	
Door Bell	A door push can be wired to the panel to activate internal sounder	
Part Set	Allows setting of the panel in certain areas	
Event Memory	Panels can log 'events' such as zone activations, power loss, panel set and reset times etc.	
Communicator Output	For connection to central monitoring stations. Not to be confused with connecting to an 'Auto Dialler' which all Force 10 panels have as a facility	

Panel Selection

	AP10LED/AP10LEDC	AP11LED/AP11LEDC	AP11LCD/AP11LCDC
Onboard keypad	✓	✗	✗
Blank end station	✗	✓	✓
LED remote keypad supplied	✗	✓	✗
LCD remote keypad supplied	✗	✗	✓
Additional LED keypads	✓	✓	✓
Additional LCD keypads	✗	✓	✓

Alarm Kits



- Complete security alarm kits
- 10 zone alarm panel
- Chime facility
- Low battery indication
- Up to 4 remote keypads

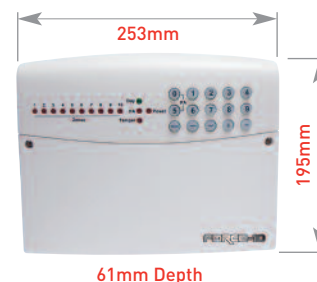
- 1 full set and 2 part set options
- Door bell feature
- 2 user codes + holiday + engineer
- Keypad PA facility
- All kits supplied with panel, battery, 3 x PIR, 2 x door/window contacts, external sounder and cable

10 Zone Alarm Kit



APF10KIT

- AP10 LED 10 zone alarm panel with on-board keypad
- AA60 12v 1.2AH Panel battery
- 3 x AD04 PIR detectors
- AU1000WBX bell box
- 100m Alarm cable
- 2 x AC01 Surface door window contacts

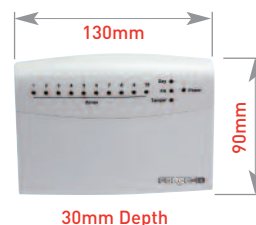


Remote Keypad Kit



APF11KITR

- AP11 LED 10 zone alarm panel and LED keypad
- AA60 12v 1.2AH Panel battery
- 3 x AD04 PIR detectors
- AU1000WBX bell box
- 100m Alarm cable
- 2 x AC01 Surface door window contacts



LCD Keypad Kit



APF11KITRL

- AP11 LCD 10 zone alarm panel and LCD keypad
- AA60 12v 1.2AH Panel battery
- 3 x AD04 PIR detectors
- AU1000WBX bell box
- 100m Alarm cable
- 2 x AC01 Surface door window contacts



Optional Accessories

Remote LED Keypad
130mm (w) x 90mm (h)



AP11RKP

Remote LCD Keypad
130mm (w) x 90mm (h)



AP11RKPL

AP11LCD Radio Fob Easy Set



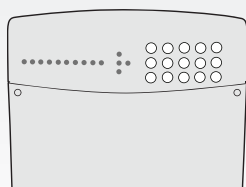
APFES

12V 2ah SLA Battery
(Maximum capacity for the Force 10 panel range)



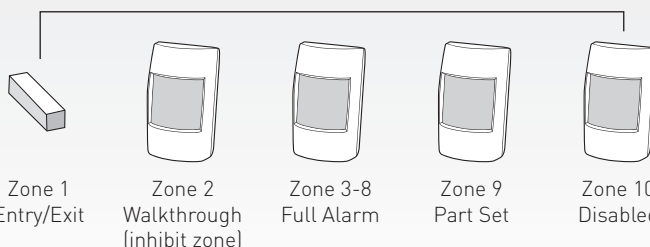
AA61

10 Zone Panel



1 Detection Device per Zone

Default Detection Zone Programming (can be changed)



SLA Batteries

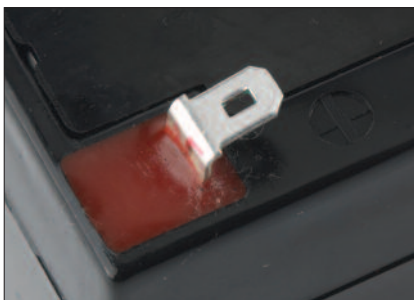
- Standby applications
- 5 year normal service
- 6 months shelf life
- Sealed lead acid
- Non spillable



Specification

Model	Voltage	AMP Hour	Depth (mm)	Width (mm)	Height (mm)	Terminal Type
AA60	12	1.2	97	43	56.5	Spade
AA61	12	2	177.5	35	66	Spade
AA62	12	3	134	67	66	Spade
AA63	12	7	151	65	99	Spade
AA64	12	12	151	99	100.5	Spade
AA65	12	17	154	76	155	Nut/Bolt
AA66	12	24	166	175	126	Nut/Bolt
AA67	12	38	196.5	165	170	Bolt
AA68	12	65	330	172	173	Bolt

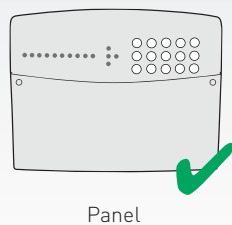
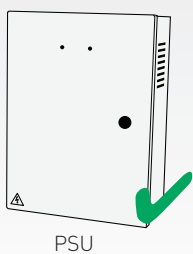
Spade Terminal



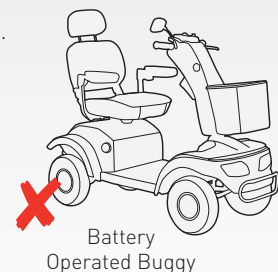
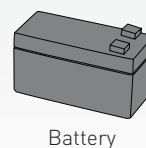
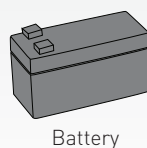
Nut/Bolt Terminal



Bolt Terminal



Batteries ideal for use in trickle charge circuits such as PSUs and alarm panels.
Batteries are not recommended for constant cyclic use.



Passive infrared measures infra red energy radiating from an object. Motion is detected when an infrared source with one temperature passes in front of another.

Detectors emit microwaves then detect any reflected microwaves. They react to changes in the frequency of the reflected energy caused by motion of an intruder. Much more sensitive than PIR and less affected by temperature. Microwaves can detect movement through non metal solid objects such as walls, floors or ceilings.

A detector that uses PIR and microwave technology together. Both elements usually need to be triggered to cause the detector to alarm.

Detectors can be set up to only activate upon detection of an IR source of a certain kind. Pets radiate a different level of IR than humans so this can be eliminated in the sensor circuits.

Electromagnetic interference is caused by AC voltage induced from electrical wiring or appliances

Radio frequency interference is caused by signals omitted by external sources such as taxi CB and police radio etc.

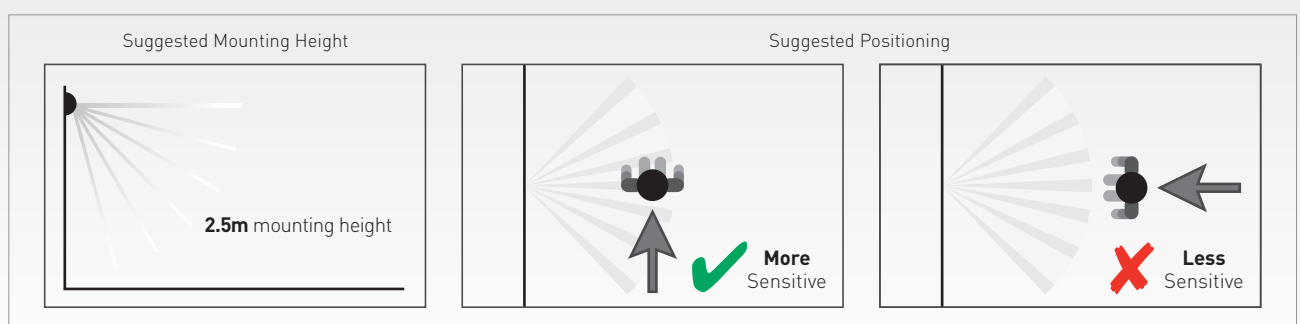
Detectors can be set up to only activate after a number of triggers within a period of time. Helps reduce false alarms.

The detector automatically adjusts the sensitivity of the PIR depending on ambient temperature. Ideal for high temperature areas, or areas with fluctuating temperatures.

White light can 'blind' a detector. Filters can reduce this; also consider not mounting detectors facing windows.

Used to focus distant infrared energy onto a PIR sensor.

PYRO is a term used for the name of a PIR's sensor (made from pyroelectric material). 'Double elements' is literally two sensors and helps cut down false alarms as both need to trigger to create an alarm condition.

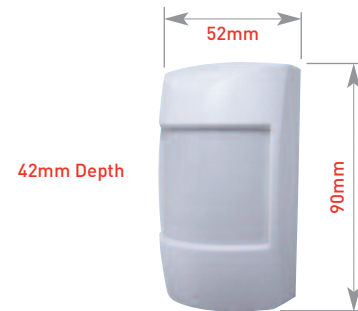




AD04N

- 12 metre range
- 110° coverage
- Look down zones / creep zones
- Selectable pulse count 1,2 or 4
- White light immunity
- Corner / wall mount
- Double element pyro
- Selectable test LED

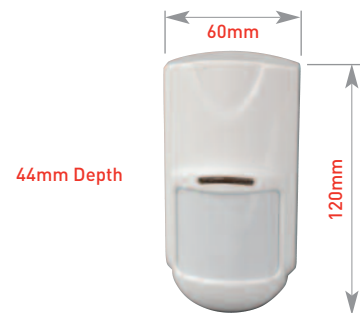
12m 110° PIR



AD32

- 12 metre range
- 110° coverage
- Pet immune to 12KG
- Temperature compensation
- Pulse count adjustment
- Anti White Light Interference
- Anti RF interference
- Double element Pyro
- -10 ~ +50 C

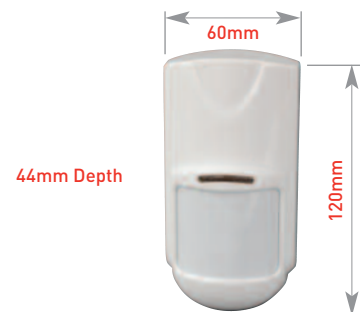
12m 110° Pet PIR



AD33

- 12 metre range
- 90° coverage
- Dual Tech
- Temperature compensation
- Pulse count adjustment
- Anti white light interference
- Anti RF interference
- Double element pyro
- -10 ~ +50 C

12m 90° Dual Tech PIR



AD03

- 11 metre range
- 360° coverage at 3.6m
- Pulse count
- LED disable
- Ceiling mount
- Dual element pyro
- 15mA current consumption

11m 360° Ceiling PIR



	AD04	AD32	AD33	AD03
Kitchen	✗	✗	✓	✗
Conservatory	✗	✗	✓	✗
Living Room	✓	✓	✓	✓
Looking at a Light Source	✗	✗	✓	✗
Office	✓	✗	✓	✓
Warehouse	✗	✗	✓	✗



Surface Contact (Normally closed)



AC01

- Surface contact
- 10mm maximum spacing
- Normally closed contact
- Available in brown - AC01/B
- Silver coloured screws for alarm zone

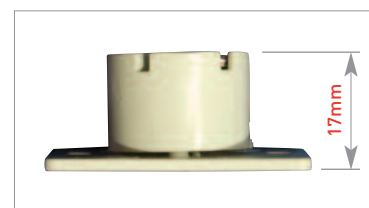


Flush Contact (Normally closed)

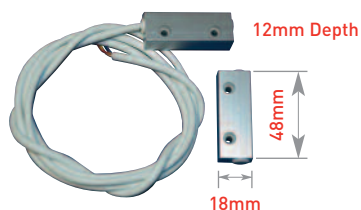


AC02

- Flush contact
- 10mm maximum spacing
- Normally closed contact
- Available in brown - AC02/B
- Silver coloured screws for alarm zone



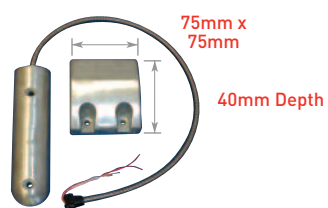
Aluminium Contact (Normally closed)



AC03

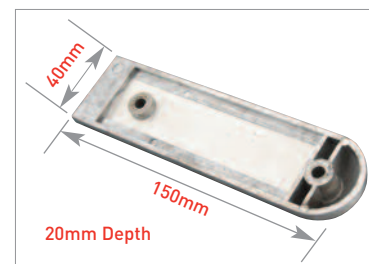
- Aluminium surface patio contact
- Pre-wired
- 10mm maximum spacing
- Normally closed contact

Roller Shutter Contact (Normally closed)

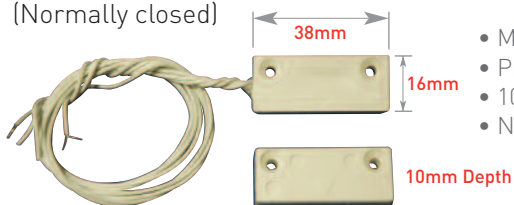


AC04

- Aluminium roller shutter contact
- Pre-wired
- 40mm maximum spacing
- Normally closed contact



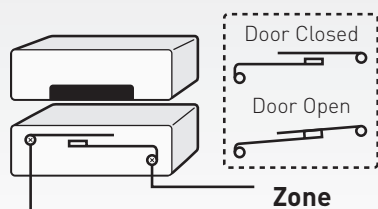
Mini Surface Contact (Normally closed)



AC05

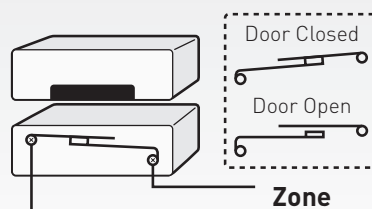
- Mini surface patio contact
- Pre-wired
- 10mm maximum spacing
- Normally closed contact

Normally **Open**

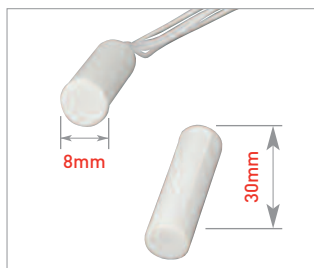


No contact of reeds when contacts are together.

Normally **Closed**



Reeds touch and make circuit when contacts are together.
Circuit breaks when contacts moved apart.



AC07

- Flush pre-wired contact
- 10mm maximum spacing
- Normally closed contact

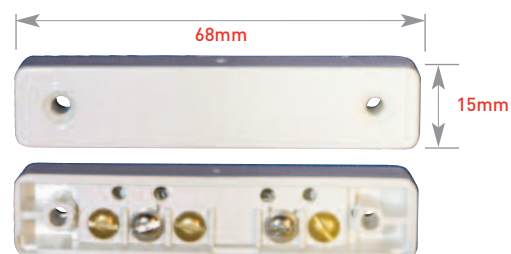
Flush Contact (Normally closed)



AC08

- Surface contact
- 10mm maximum spacing
- Normally open contact
- Silver coloured screws for alarm zone

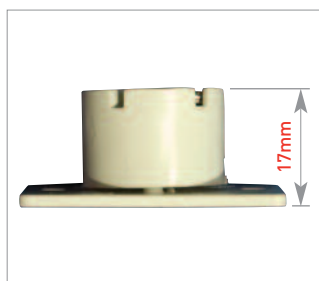
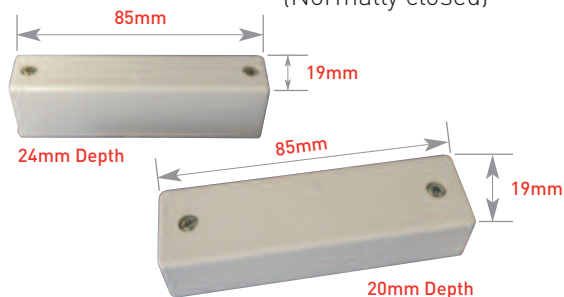
Surface Contact (Normally open)



AC09

- Surface contact
- Heavy duty
- 20mm maximum spacing
- Normally closed contact

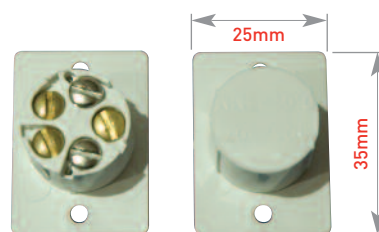
Heavy Duty Surface Contact (Normally closed)



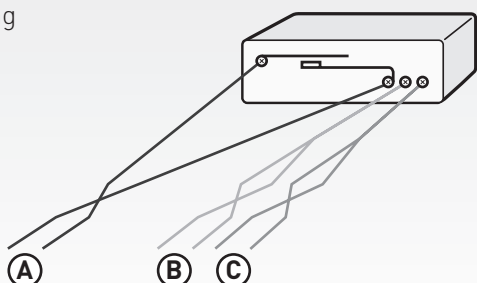
AC10

- Flush contact
- 10mm maximum spacing
- Normally open contact
- Silver coloured screws for alarm zone

Flush contact (Normally open)



Contact Wiring

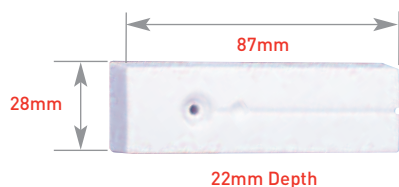


- Ⓐ 2 cores to zone in panel
(Connect to screws that hold reed)
- Ⓑ 2 cores to tamper circuit
(Twisted together)
- Ⓒ Spare Cores

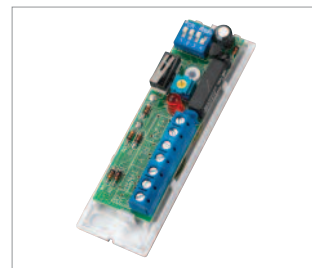


Shock Sensor

AA11

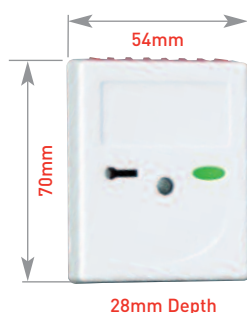


- Vibration sensor
- Surface mount
- Selectable one or two pulse count
- LED indication
- Tamper resistant cover
- Perimeter protection



PA Button (Plastic)

AA02



- Plastic personal attack button
- Latching
- Key reset



PA Button (Metal)

AA03

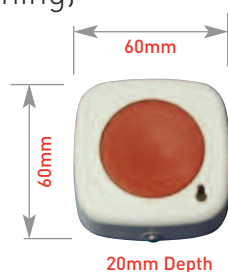


- Metal personal attack button
- Latching
- Key reset

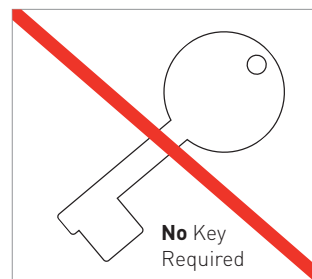


PA Button (Plastic non latching)

AA04



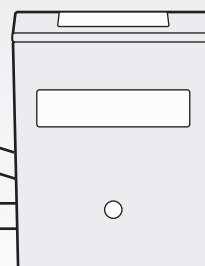
- Plastic personal attack button
- Non latching
- Self reset

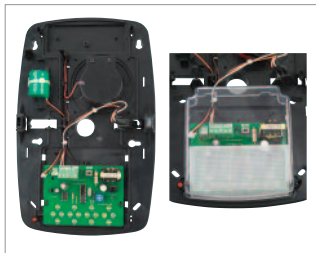
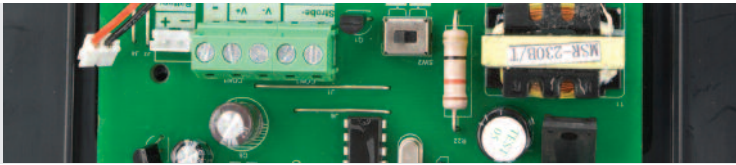


Panic Attack Button

2 cores
to tamper circuit

2 cores
to 24hr zone
or
panic zone in panel





AU1000WBX

- External alarm sounder
- LED strobe technology
- 117DB
- Protected PCB
- Front and rear tamper
- SAB/SCB switching
- LED status indication

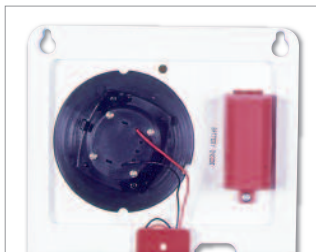
External Sounder 117DB LED



AB1000WBX

- External dummy alarm sounder
- Matching design to live AU1000WBX
- Flashing LED
- Built in battery holder (2 x C type)
- Up to 18 month battery life (batteries not included)

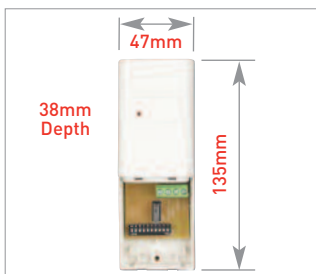
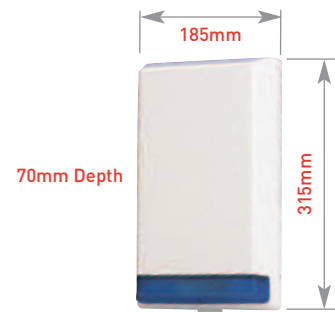
Dummy External Sounder



AU1000WB

- External alarm sounder
- 114DB
- Twin status LEDs for tamper and power indication
- SAB/SCB switching

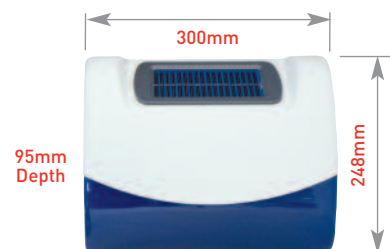
External Sounder 114DB



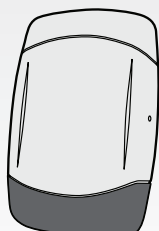
AUW1

- Universal design suits any hard wired system
- Solar panel charges and maintains the internal rechargeable battery
- 40 days operation in complete darkness
- 105DB siren
- Weatherproof design
- 868MHz
- 3 or 15 mins selectable siren duration
- Up to 100 metres wireless transmission

Solar Wireless External Sounder

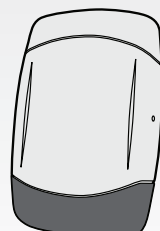


SAB



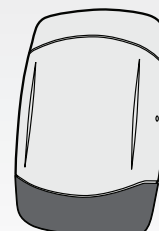
1 External Sounder

SAB



2 External Sounders

SCB



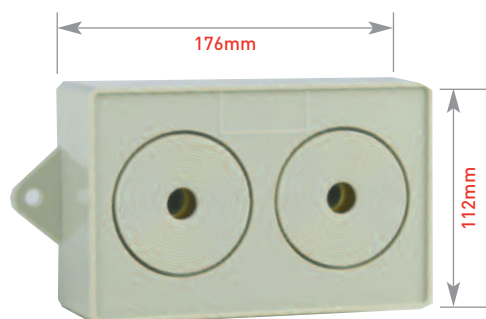
SCB option used for
2nd external sounder
on a system

Internal Sounders & Speakers

Internal Sounder 104DB

AS04

- Internal Sounder
- 104DB
- 10-15V DC
- 85ma

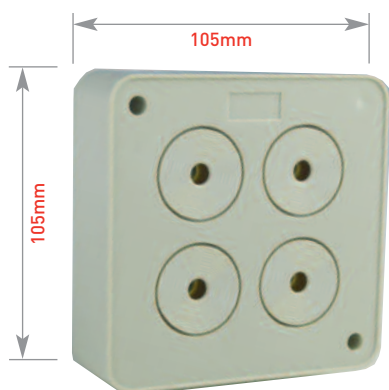


45mm Depth

Internal Sounder 111DB

AS05

- Internal Sounder
- 111DB
- 12V DC
- 190ma



33mm Depth

Internal Speaker 16 ohm

AS14

- Extension Speaker
- Entry / exit tone as well as full alarm sound
- 16 ohms



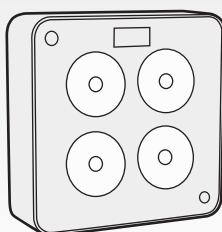
55mm Depth



55mm Depth

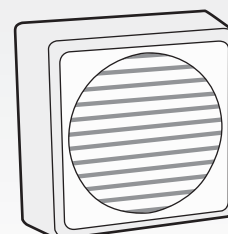
Internal Sounders
AS04, AS05 & AS06

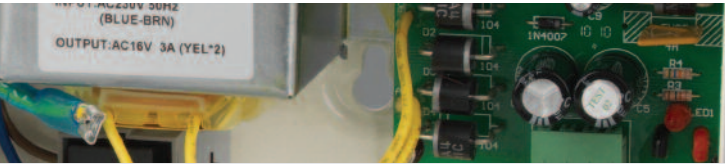
Sounders
12V DC
Sound on alarm activation



Speakers

AS14
Mimics tones
from alarm panel
(chime etc.)





- A charger and regulated power-limited supply, the AAPSU range converts 230V AC input into a 12V DC power limited output with continuous supply current. Commonly used with a sealed lead acid battery for back up purposes.

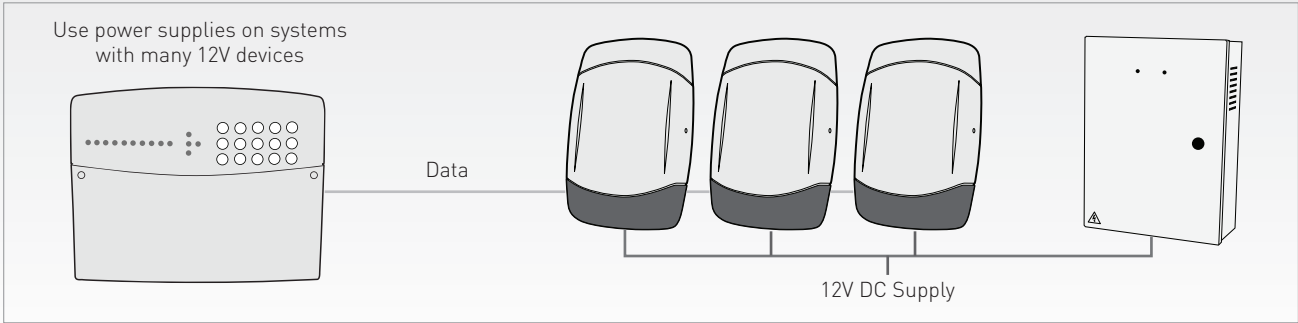
Features & Benefits

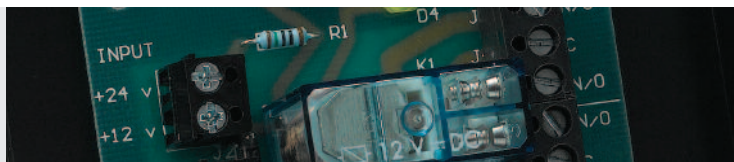
- 1 amp to 5 amp continuous supply current at 12V DC
- Filtered and electronically regulated output
- Built in charger for sealed lead acid or gel type batteries
- Maximum battery charge current 120ma
- Automatic switchover to standby when AC fails
- Fuse power input / output indicators
- 12V 7ah maximum battery capacity for back up (supplied separately)
- PTC Fuse for battery



Specification

Model	Voltage	AMP Hour	Length (mm)	Width (mm)	Depth (mm)
AAPSU1	13.68V DC	1	185	235	80
AAPSU2	13.68V DC	2	185	235	80
AAPSU3	13.68V DC	3	185	235	80
AAPSU5	13.68V DC	5	210	280	90





Auto Dialler

**AT60**

- Voice auto dialler
- 3 sets of programmable phone numbers, each with 16 digits
- Record your own outgoing message
- Tone dialling mode
- 20 seconds of message storage
- 12V DC
- 9V alkaline battery backup (not supplied)
- For use on standard PSTN lines (Not PABX systems)



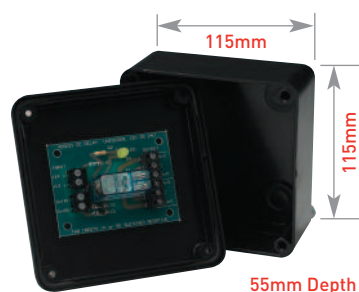
White Security Alarm Cable

**AW4/100, AW6/100, AW8/100**

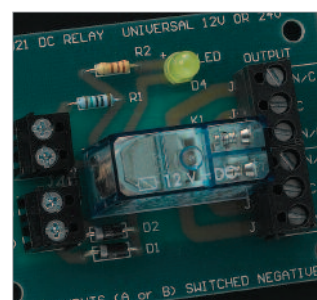
- 100 metre drums
- 130 ohm
- EN50131
- AW4/100 - 4 core
- AW6/100 - 6 core
- AW8/100 - 8 core



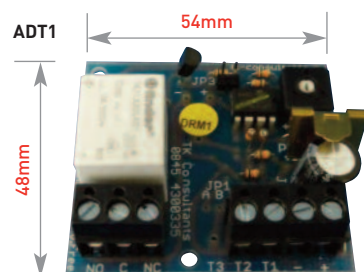
Boxed Relay

**AR12N**

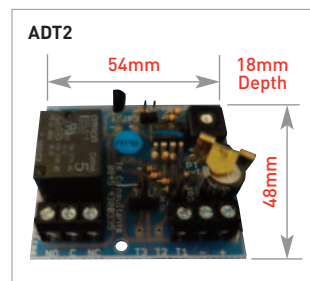
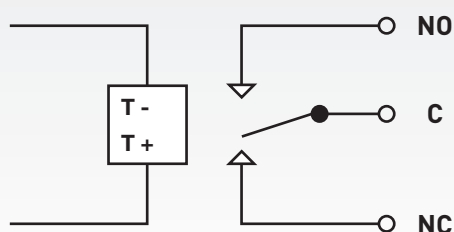
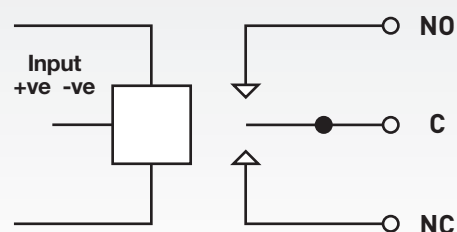
- 12V DC or 24V DC
- 230V
- 8 amps
- n/c common, n/o contacts
- Double pole



Timer Relays

**ADT1, ADT2**

- 12V DC
 - Double pole change over contacts
- | | ADT1 | ADT2 |
|---------------------|------------|--------------|
| • Quiescent current | 5ma | 4ma |
| • Current latched | 32ma | 40ma |
| • Rating | 3a @24V DC | 10a @ 24V DC |

**ADT1: 0-60 seconds****ADT2: 0-60 minutes + delay**

Features & Benefits

APFWKN

- Wireless hybrid alarm system
- Up to 10 wireless alarm devices (ADFW1, ACFW1)
- Add wireless and/or wired alarm devices
- Wireless solar powered external sounder
- Up to 18 months battery life (ADFW1, ACFW1)
- Kit comprises of:
 - 1 x hybrid alarm panel
 - 1 x back up battery (12VDC 1.2ah)
 - 2 x wireless contacts
 - 2 x wireless PIRs
 - 1 x solar powered external sounder



Technical Specification

Panel

Power supply	DC 9V to 14V
Current consumption	Standby to 20ma Alarm 100ma
Security wireless zones	Up to 10 devices
Security wired zones	Up to 4 devices
User remote key fobs	Up to 4 devices
Radio system	433MHz receiver
Wireless alarm device range	Up to 100 metres
Wireless remote key range	Up to 50 metres
Anti-jamming	Yes
Tamper	Yes
P.A.	Yes
Ambient operating temperature	0°C to 40°C

Entry/Exit	Programmable
Event memory	16 events
Bell timer	1 - 20 minutes
Battery	Up to 2.1 ah
Housing	Polycarbonate
Chime facility	Yes
Low battery warning	Yes
User codes	2 + holiday + engineer
Door bell feature	Yes

PIR

Contact

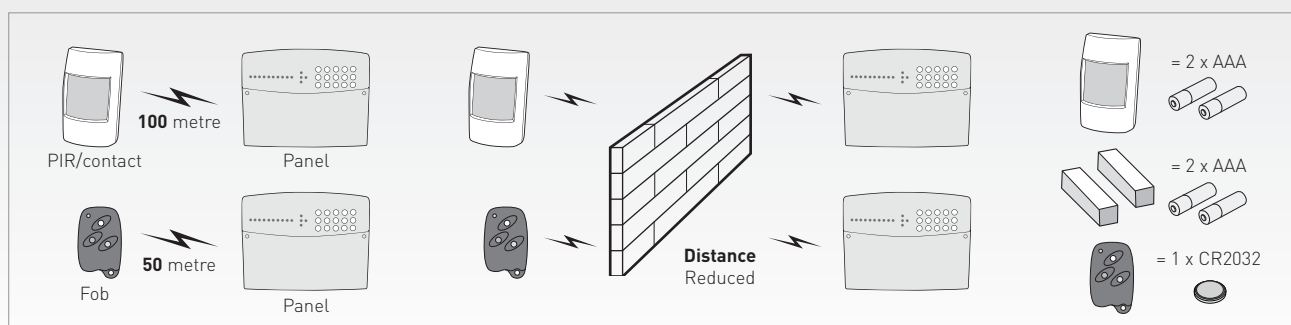
Detection range	12m 110°	N/A
Battery life	up to 18 months	up to 18 months
Transmission range	up to 100m	up to 100m
Mounting	wall / corner	surface
Battery	2 x AAA	2 x AAA
Expandable?	N/A	Yes with AC01/02

APFWKN - Wireless Alarm Kit

ADFW1 - Wireless PIR Detector

ACFW1 - Wireless Contact

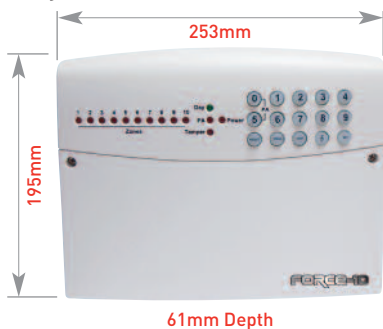
AUWFOB - Radio Fob



Wireless Alarms

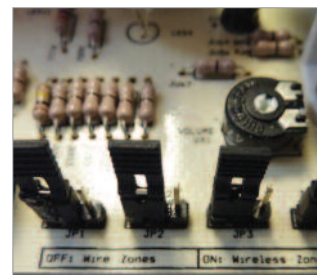


Hybrid Wireless Panel



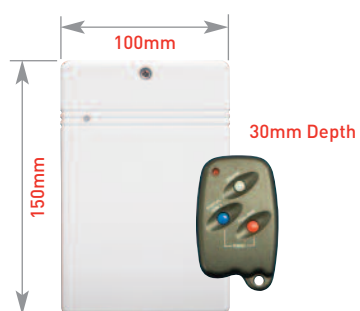
APFWP

- Selectable wired or wireless zones (x10)
- Up to 10 wireless zones
- Up to 4 wired zones
- Up to 100m wireless range
- 2 user codes + holiday
- Doorbell feature
- Chime facility
- 16 event memory
- Programmable entry/exit



Select **wired** or **wireless** zones

Radio Fob Easy Set Kit

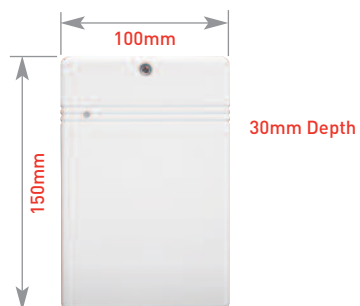


APFES

- Link up to 4 wireless remote keys (AUWFOB)
- Arm and disarm alarm by remote keyfob
- Powered by alarm panel, no extra power source is needed
- Status LED indication
- Alert buzzer
- Supplied with 1 wireless fob (AUWFOB)
- Use with AP11LCD Force 10 Panels



Wireless Receiver 10 Zone

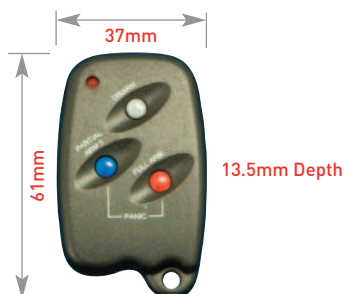


APFW10

- Allows the AP11LCD alarm control panel to become wireless alarm system
- Link to 10 wireless alarm devices (ADFW1, ACFW1) and 4 wireless remote fobs (AUWFOB). APFES is not required
- Arm and disarm alarm by remote key (AUWFOB)
- Power up by alarm control unit, no extra power source is needed
- Anti-jamming detection
- Low battery detection

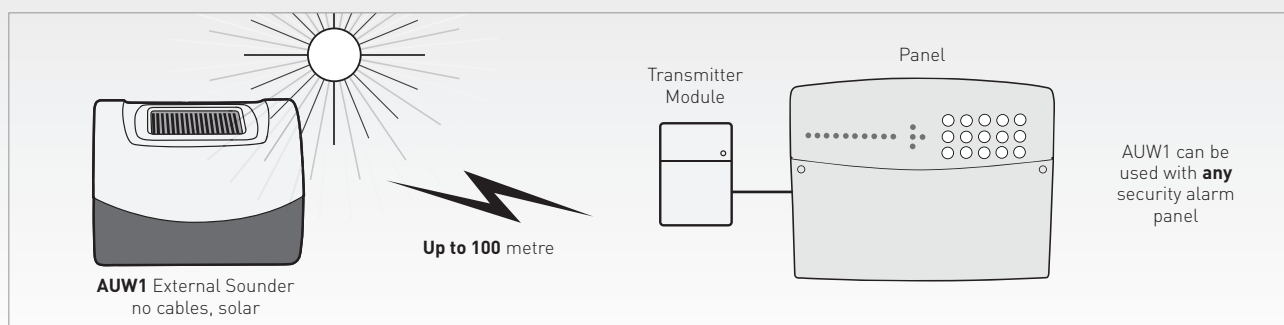
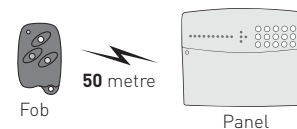


Radio Fob



AUWFOB

- Microprocessor based wireless remote control keyfob
- LED transmission indication
- 3V DC CR2032 Lithium battery
- Up to 50 metre range
- Use with APFES, APFW10, APFWP, APFWKITN

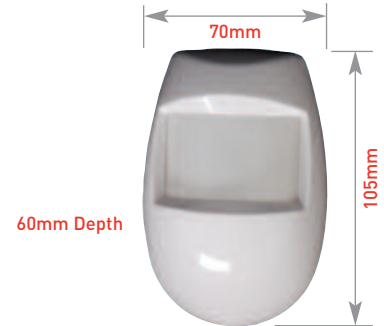




ADFW1

- 12 Metre range
- 110 degree coverage
- AAA battery powered (x2)
- Up to 18 month battery life
- Wall or Corner mount
- Transmission range up to 100 metre

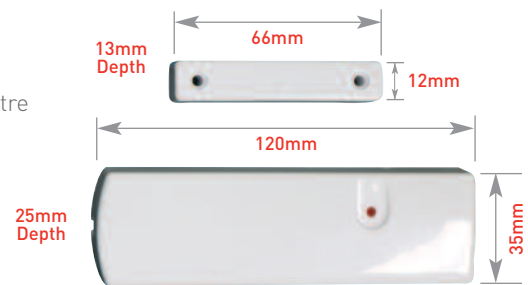
Wireless PIR Detector



ACFW1

- AAA battery powered (x2)
- Up to 18 month battery life
- Wall or Corner mount
- Transmission range up to 100 metre
- Expandable with wired contacts

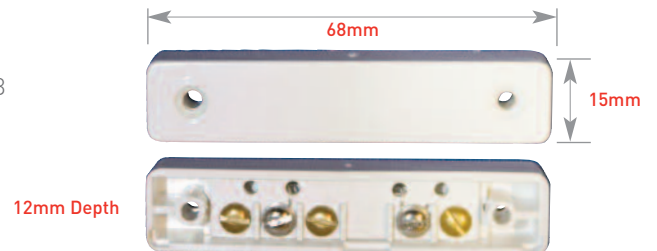
Wireless Contact



AC01

- Surface contact
- 10mm spacing
- Normally closed contact
- Available in brown - AC01/B
- Wired directly to ACFW1

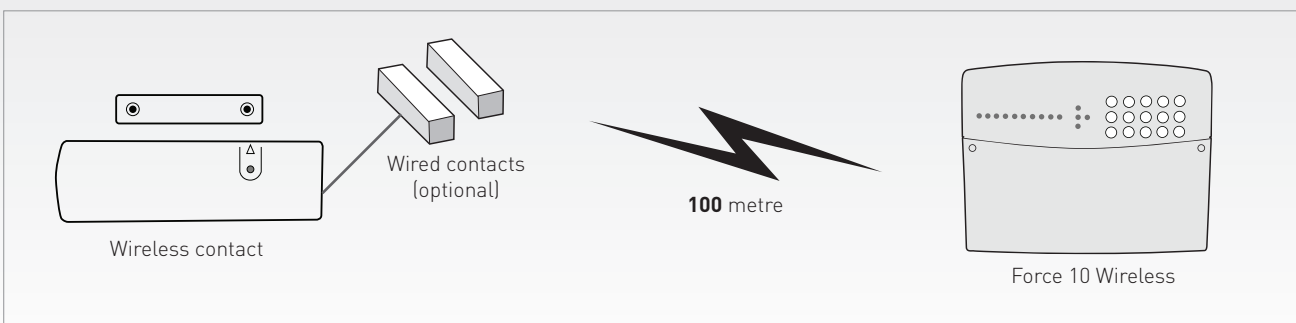
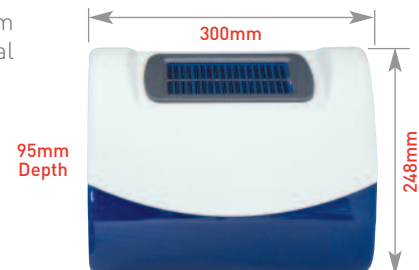
Surface Contact (Normally closed)



AUW1

- Universal design suits any hard wired system
- Solar panel charges & maintains the internal rechargeable battery
- 40 days operation in complete darkness
- 105DB siren
- Weatherproof design
- Up to 100m transmission distance
- 868 MHz
- 3 or 15 mins selectable siren duration

Solar Wireless External Sounder



Wireless Camera PIR Floodlight



Features & Benefits

- 300W PIR floodlight camera with wireless image recording
- Recording made on SD card (2GB) supplied which is housed in the wireless receiver, eliminating the need to go to the flood light to retrieve the SD card for playing back footage
- Wireless receiver connects to TV for viewing live and recorded footage
- Still or video footage selectable
- 52° 9m PIR with LED indication of link with receiver
- IR remote control
- Up to 20,000 images on 2GB SD card

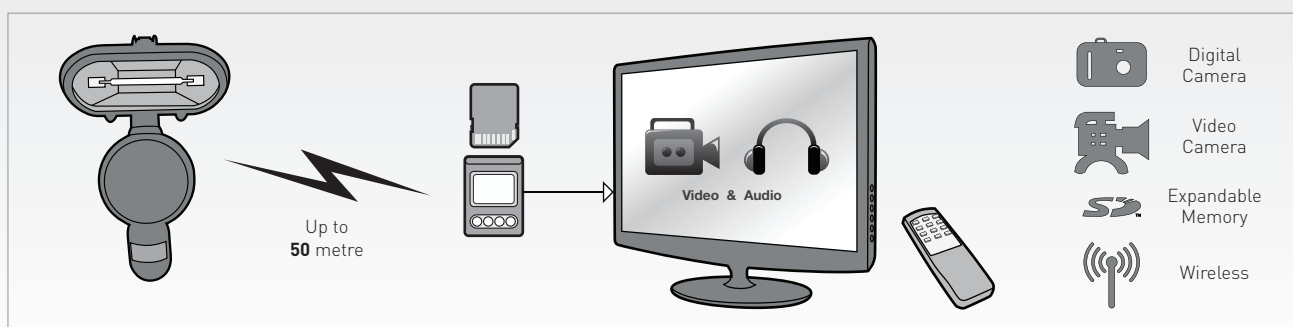


Technical Specification

PIR detection angle:	52°	Display:	Built in status LCD display screen
PIR detection range:	Up to 9 metres	Time stamp:	Auto date and time on the captured image/video file and file name
Image sensor:	1.3 megapixels	Interface type:	USB 1.1 for PC access
Image performance for video stream:	20 fps at 640x480 pixels	Voltage:	Powered by 230V AC via supplied PSU
Image format:	JPEG, Motion JPEG	Radio frequency:	433 MHz
Maximum resolution:	1.3 megapixels, 1280x800 pixels	Operating Environment:	-10°C to 40°C (14°F to 104°F) 20-85% humidity, non-condensation
Capture options:	Still image 1P to 3P burst capturing video recording	Dimensions:	300mm (h) x 170mm (w) x 85mm (d)
Focal length:	1.5 metres (minimum) to infinity	Weight:	1.2kg
Lens:	High precision 4 piece glass with IR coating	Lamp:	300W/type R7S
Exposure:	Automatic control, white balance and sharpness, auto light sensor	Accessories	Infrared remote controller with full control buttons (supplied)
Memory:	Built in SD card slot for SD memory card. Supports up to 4GB with built in 32MB SDRAM image buffer		

System Requirements & Compatibility (if connecting to a PC)

Windows 2000/Me/XP/Vista/7 (Live viewing is not supported with Windows 7)	An available CDROM driver and an available USB port	256MB SDRAM or above	20GB free hard disk space
Pentium 1GHz or equivalent processor	Sound card	VGA video card with 32MB RAM min.	Colour - 32 bit or higher



SLDC2



Features & Benefits

- 400W PIR halogen floodlight with image recording
- Recording made on SD card (512MB) supplied
- Still or video footage selectable
- 48° 9 metre PIR
- Up to 10,000 images on 2GB SD card (512MB) supplied
- Microphone for audio recording on videos

Protect your property with the SLDC2 for:

- Homes and gardens
- Driveways and garages
- Outbuildings and sheds
- Factories and offices
- Halls and clubhouses
- Remote locations

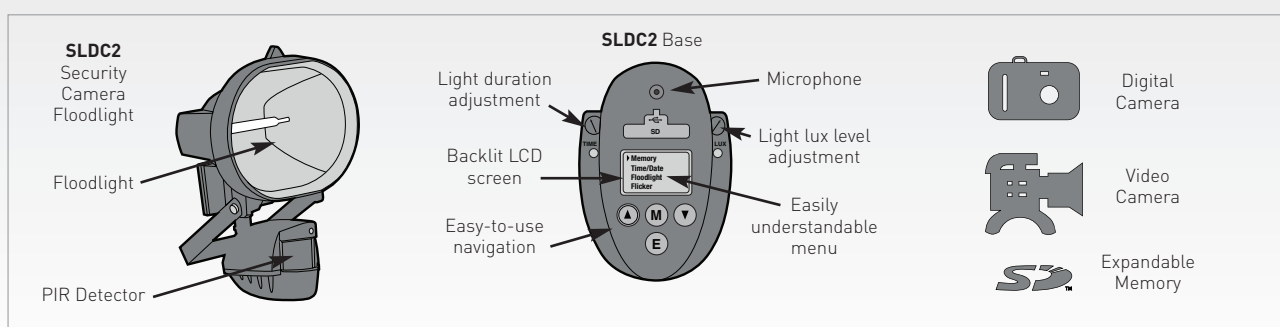


Technical Specification

PIR detection angle:	48°	Memory:	16MB built in memory, SD card slot for up to 2MB card
PIR detection range:	Up to 9 metres	Display:	Dot matrix backlit LCD
Image sensor:	3 megapixels	Time stamp:	Date & time stamped images
Image format:	JPEG, Motion JPEG	Interface type:	USB for PC access
Maximum resolution:	3 megapixels	Voltage:	Powered by 230V AC
Capture options:	Still/double photo 10-60 sec video clip	Lamp:	400W halogen floodlight
Focal length:	1.5 metres (minimum) to infinity		
Exposure:	Automatic exposure control		

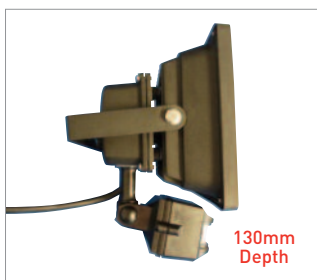
System Requirements & Compatibility (if connecting to a PC)

Windows XP	An available CDR0M driver and an available USB port
Pentium 1GHz or equivalent processor	Sound card
256MB SDRAM or above	20GB free hard disk space
VGA video card with 32MB RAM min.	Colour - 32 bit or higher



**SL104C**

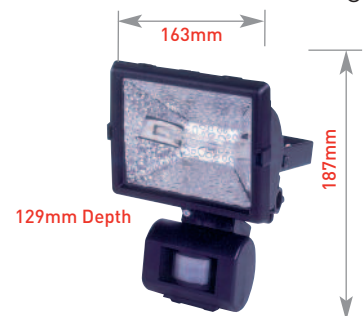
- 12 metre detection range
- 110° detection angle
- Lux adjustment
- 3 seconds to 10 minutes timer delay
- 400W halogen switch rating
- Auto override facility
- IP44
- Optional wire guard (SLWG)
- 2 year warranty
- LED indication of PIR activation

400W PIR Floodlight**SLFLED20**

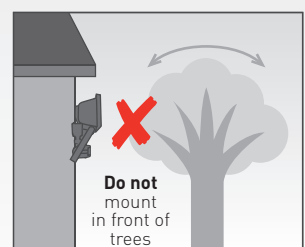
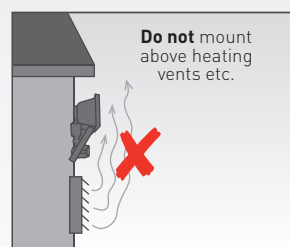
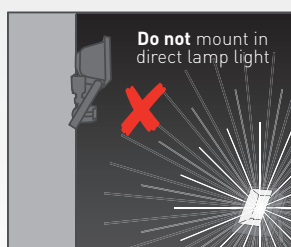
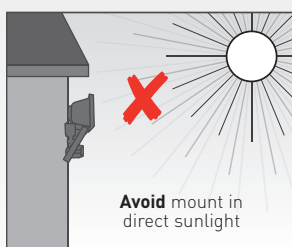
- 1 x 20W Epistar LED chip
- 12 metre detection range
- 90° detection angle
- Lux adjustment
- 5 seconds to 8 minutes delay timer
- IP65 (housing) IP44 (PIR)
- 1390 lumen

20W LED PIR Floodlight**SL150C**

- 12 metre detection range
- 90° detection angle
- Lux adjustment
- 3 seconds to 10 minutes timer delay
- 120W halogen switch rating
- Manual override facility
- IP44
- 2 year warranty
- LED indication of PIR activation

120W PIR Floodlight**SLFLED**

- 9 Watt Energy Efficient
- 140 Super bright LEDs
- 10 metre detection range
- 120 degree detection angle
- Lux adjustment
- 5 seconds to 8 minutes delay timer
- IP44

9W LED PIR Floodlight**PIR Floodlight Mounting Tips**



Fitting not included

SLTHLED

- LED replacement T/H lamp
- 8W LED lamp
- 240V input voltage
- Replaces 500W/400W T/H Lamps
- 15,000 hours use
- R75 base
- 550 lm

Retrofit LED Lamp Module



SL12LED

- 4W Energy Efficient
- 220-240VAC
- 51x 0.075W LEDs
- Photocell controlled
- IP44

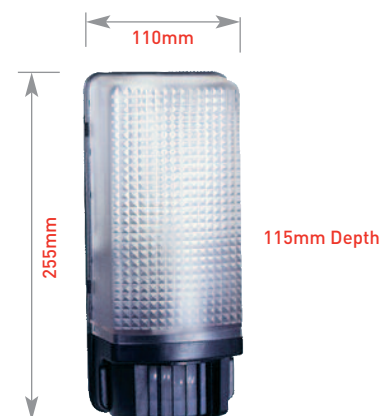
LED Bulkhead



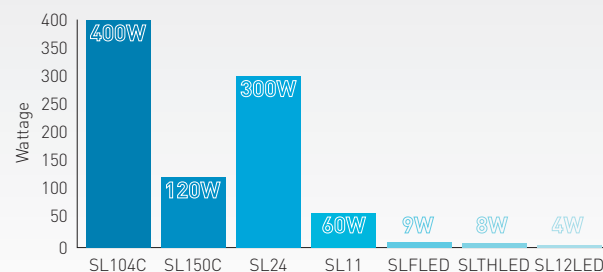
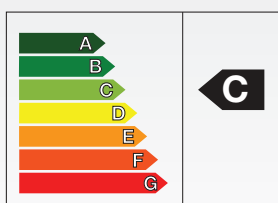
SL11

- 60W maximum ES lamp switch rating
- 5 seconds to 5 minutes timer delay
- 10 metre approximate PIR range
- 110° coverage
- IP44
- Also available in white (SL11W)

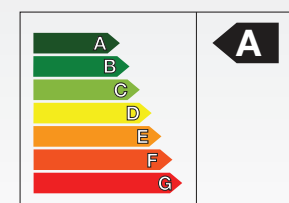
PIR Bulkhead



Halogen/Incandescent

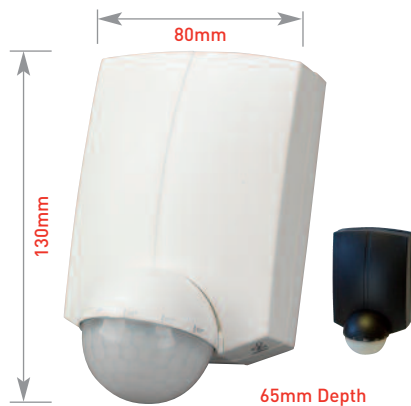


LED





110° Wall/Ceiling PIR



SL01

- 10 Metre PIR
- Wall/ceiling mount with swivel head
- 110 degree coverage
- Relay Switched
- 4 programmable lens LEDs
- Adjustable detector head
- Adjustable sensitivity, time & lux
- Lens shield supplied
- Suitable for any type of load
- SL01B Black

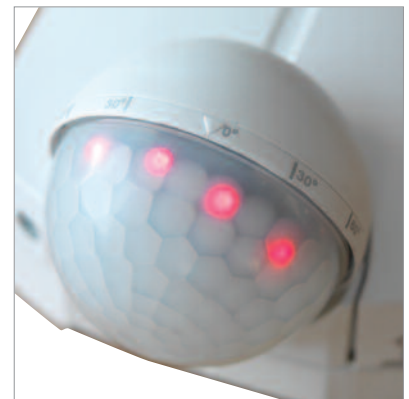


180° Wall/Ceiling PIR



SL02

- 10 Metre PIR
- Wall / ceiling mount with swivel head
- 180 degree coverage
- Relay Switched
- 4 programmable lens LEDs
- Adjustable detector head
- Adjustable sensitivity, time & lux
- Lens shield supplied
- Suitable for any type of load
- SL02B Black



270° PIR Sensor

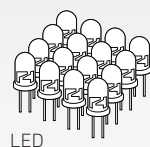
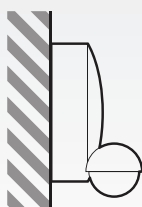


SL03

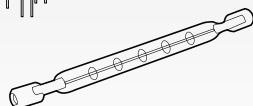
- 10 Metre PIR
- Wall/corner/ceiling mount with swivel head
- 270 degree coverage
- Relay Switched
- 4 programmable lens LEDs
- Adjustable detector head
- Adjustable sensitivity, time & lux
- Lens shield supplied
- Suitable for any type of load
- SL03B Black



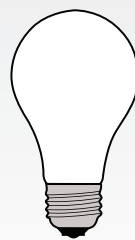
Check type and total wattage of lighting load before choosing PIR detectors



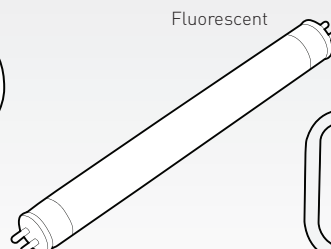
LED



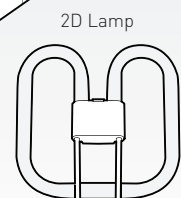
Halogen



Incandescent



Fluorescent



2D Lamp



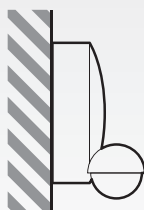
SL180N

- 10 metre wall PIR
- 180° coverage
- Lux adjustment
- 10 seconds to 10 minutes timer relay
- Auto override
- IP44
- No minimum load

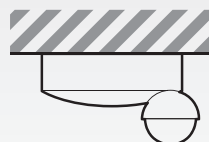
180° PIR Sensor



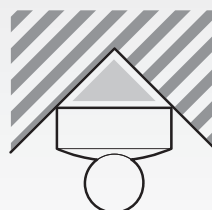
	SL01	SL02	SL03	SL180N
Type and size of load to switch				
Incandescent	1000W	1000W	1840W	1700W
Halogen AC	500W	500W	1000W	850W
Halogen LV	150W	150W	200W	200W
Fluorescent	300VA	300VA	300VA	300VA
Number of fluorescent fittings	1x18W	6	6	6
	2x18W	3	3	3
	1x36W	3	3	3
	2x36W	2	2	2
	1x58W	2	2	2
	2x58W	1	1	1
LED	120W	120W	150W	N/A
Energy Saving Lamp (PL CFL)	150W	150W	200W	N/A
Minimum Load Requirement	N/A	N/A	N/A	N/A
Coverage				
Distance	10m	10m	10m	10m
Angle	110°	180°	270°	180°
Mounting Position				
Wall	✓	✓	✓	✓
Corner	✗	✗	✓	✗
Ceiling	✓	✓	✓	✗
Installation Height	2.5m	2.5m	2.5m	2.5m
Adjustments				
Lux	5 - ∞	5 - ∞	5 - ∞	10 - 10,000
LED Indication Mode	Off/Warning/Watch	Off/Warning/Watch	Off/Warning/Watch	N/A
Override	Separate switch live	Separate switch live	Separate switch live	Yes (off on off on)
Sensitivity	1-10 metres	1-10 metres	1-10 metres	N/A
Time	6 secs to 10 mins	6 secs to 10 mins	6 secs to 10 mins	10 secs to 10 mins
Lens Shield	✓	✓	✓	✗
Environmental				
IP Rating	IP44	IP44	IP44	IP44
Operating Temperature	-20°C - +45°C	-20°C - +45°C	-20°C - +45°C	-10°C - +40°C
Warranty	2 Years	2 Years	2 Years	1 Year



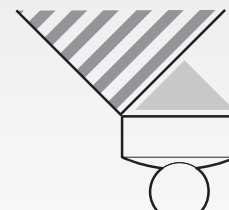
Wall Mounted



Ceiling Mounted



Internal Corner
SL03 only



External Corner
SL03 only

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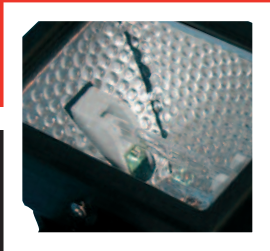
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