CHALLENGER
YOUR PARTNER IN A MORE SECURE FUTURE

SECURITY LIGHTING

CHALLENGER
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INTRUDER ALARMS

CHALLENGER

YOUR PARTNER IN A MORE SECURE FUTURE

Edition 8:

Security Product Portfolio

2017/2018

FACINA
SURVEILLANCE

CCTV

FORTESSA
CONTROLLED ACCESS BY DESIGN

DOOR ACCESS

Welcome to the 2017/2018 Challenger Security Product Portfolio

Challenger, your partner in a more secure future.

Established for 30 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 upmost to assist you. Our website www.challenger.co.uk also showcases all new products released, so please look us up whilst online.

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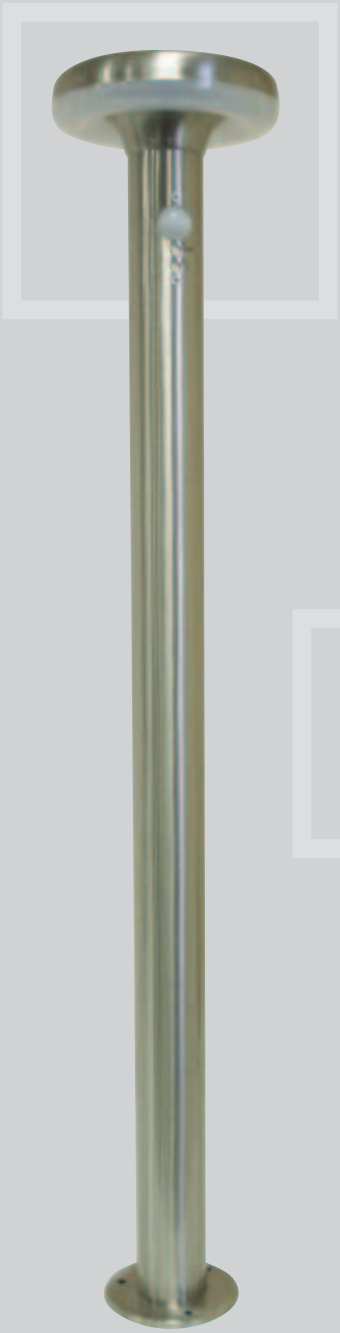
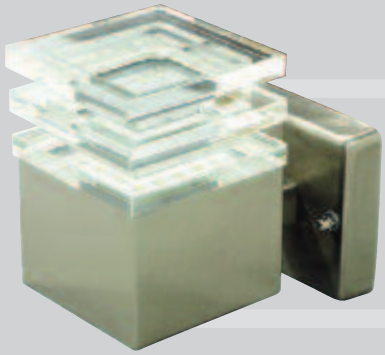
CHALLENGER

YOUR PARTNER IN A MORE SECURE FUTURE

Security Products

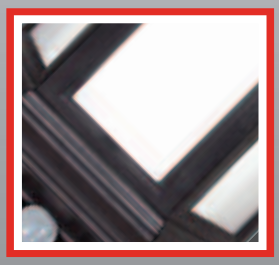
SECURITY LIGHTING



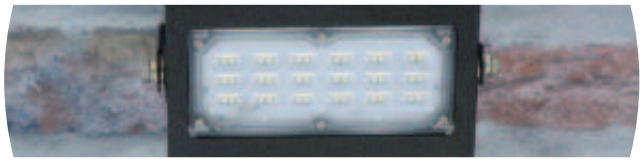


Challenger Lighting and Security Products have constantly evolved since 1986.

Utilising the latest **manufacturing techniques** and **technology**, the product ranges remain **fresh** and **innovative**, whilst maintaining the **highest of standards**.



Slim Line LED Security Floodlights



Floodlight vulnerable areas with energy efficient LED lighting.

NEW
SLIM LINE
LIGHTWEIGHT
DESIGN

Up to 100 lumens per watt
High output
Low consumption

FEATURES & BENEFITS

- Philips Lumiled LED chip
- 25% more efficient than existing C.O.B. technology
- 100 lumens per watt
- Improved heat management
- New lens technology allows slim line small footprint
- 5,000K colour temperature

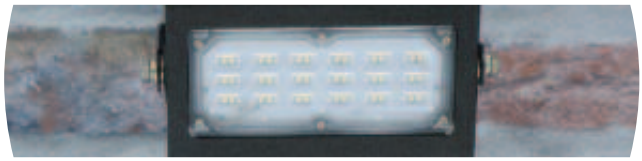
CE RoHS Compliant LED

FEATURES & BENEFITS

PIR Versions

- 10m distance
- 120° coverage
- Fully adjustable
- 10 seconds to 8 minutes delay time
- 3 - 2,000 lux adjustable 'on' level
- Detection speed 0.6 - 1.5m per second
- Auto override function (power off on off on)

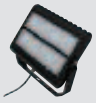
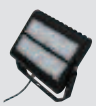
Slim Line LED Security Floodlights



80 - 150W

FLOODLIGHT

FLOODLIGHT SPECIFICATION

PRODUCT IMAGE	PART CODE	CONSUMPTION	LUMENS	COLOUR TEMP.
	SLFLF15	15W	1,500LM	5000K
	SLFLF15P	15W	1,500LM	5000K
	SLFLF30	30W	3,000LM	5000K
	SLFLF30P	30W	3,000LM	5000K
	SLFLF50	50W	5,000LM	5000K
	SLFLF50P	50W	5,000LM	5000K
	SLFLF80	80W	8,000LM	5000K
	SLFLF100	100W	10,000LM	5000K
	SLFLF150	150W	15,000LM	5000K

Slim Line LED Security Floodlights

PIR VERSION

FLOODLIGHT

	PIR SENSOR	AUTO OVERRIDE	DIMENSIONS (MM)	WEIGHT	WARRANTY
	N/A	N/A	108x37x82	0.62KG	5 YEARS
	10M 120°	YES (OFF ON OFF ON)	115x56x178	0.72KG	5 YEARS
	N/A	N/A	171x40x130	1.3KG	5 YEARS
	10M 120°	YES (OFF ON OFF ON)	179x41x228	1.4KG	5 YEARS
	N/A	N/A	217x45x154	1.9KG	5 YEARS
	10M 120°	YES (OFF ON OFF ON)	225x40x250	2.0KG	5 YEARS
	N/A	N/A	320x86x250	5.0KG	5 YEARS
	N/A	N/A	320x86x250	5.4KG	5 YEARS
	N/A	N/A	320x86x250	5.4KG	5 YEARS

WIFI PIR Floodlight

SLFLEDWIFI

- Energy efficient LED
- 2 x 6.5W LED lamps boasting impressive 1100lm output
- Up to 40,00 hours lifespan, and true 180˚ flood coverage

- High resolution camera with built in microphone speaker and DVR
- PIR sensor to activate lamps and provide alarm notification

- Easy to install
- Quick fix base
- Wall or under eaves mounting
- Connects to router via WIFI

- View via WIFI
- Easy set up through app or WPS
- Use mobile, tablet or PC to view and capture video and audio
- CCTV NVR software supplied (up to 8 cameras)

DETECTS INTRUDERS

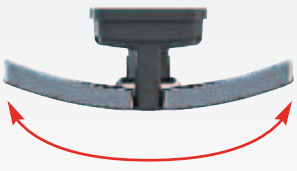
LED FLOODLIGHTS THE AREA

RECORDS HD VIDEO

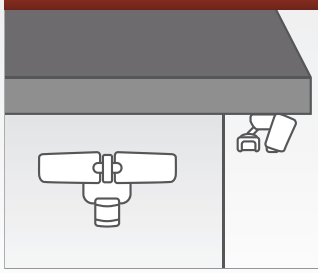
ALERTS OVER Wi Fi AND INTERNET

ALLOWS REMOTE MONITORING

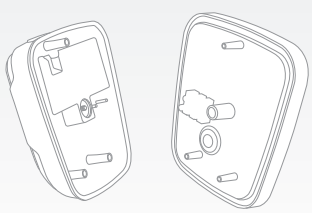
TRUE LED FLOOD LIGHTING



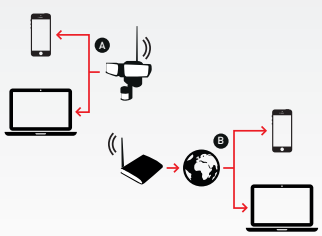
FLEXIBLE MOUNTING



EASY TO FIT



HASSLE FREE SETUP



SLFLEDWIFI Specification

Floodlight	
Supply voltage:	100-240VAC
Lighting style:	2x 6.5W LED
LED output:	>1100 LM
LED coverage:	180˚
LED adjustment:	Up 20˚, down 45˚
LED CRI:	>80
LED Colour:	5000K
Lamp Life:	40,000 hrs
PIR	
Detection angle:	110˚
Detection range:	12m
Time adjustment:	5 secs to 10 mins
Lux adjustment:	0 to ∞
Camera	
Lens angle:	60˚
Video recording quality:	Up to 1.3MP HD
Frames per second:	25
Alarm:	PIR activation to send alert to app or images to email address
Audio:	2 way (bilateral voice intercom and voice broadcast)
LAN connection:	Wireless through WIFI (WIFI router required). Easy setup via WPS or manually with app wizards
Remote Users:	Maximum 4 users simultaneously
Network protocols:	TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, BOOTP, DHCP, FTP, SNMP, WIFI
APP	
Control:	Add, modify or delete cameras with wizard, QR code or manually
Snapshot:	Save still image remotely whilst viewing real time
Video record:	Save footage remotely whilst viewing real time
Intercom:	Broadcast voice to cameras on board speaker
Monitor:	Listen to audio transmitted from camera
Alert:	Receive PIR activated alarms and motion detection alarms
Versions:	Android, iOS

Supplied with 16GB MicroSD Card

PIR MOTION SENSOR

180˚ COVERAGE, 12m RANGE

HD CCTV CAMERA

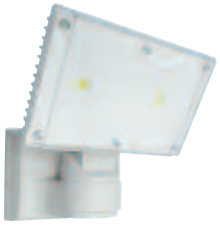
WIFI OR 3G CONNECTIVITY

ALARM NOTIFICATION

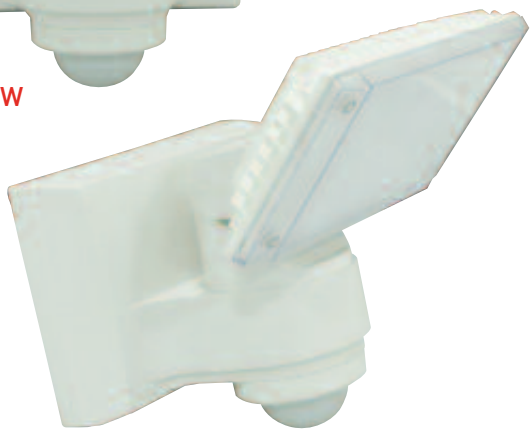
Polycarbonate LED Security Floodlights

SLRF13B/W & SLRF26B/W

SLRF26SW



SLRF13W

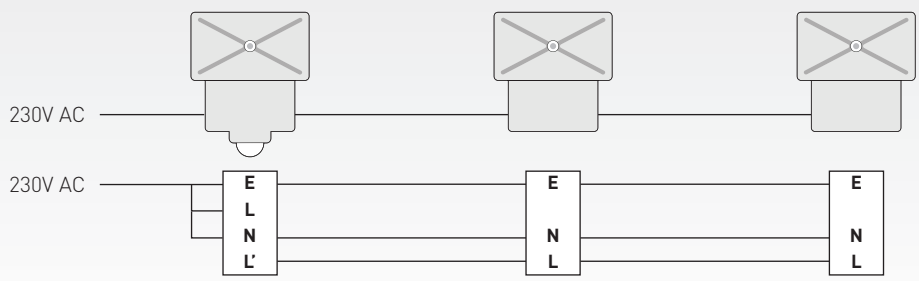


SLRF26SB

SLRF26B

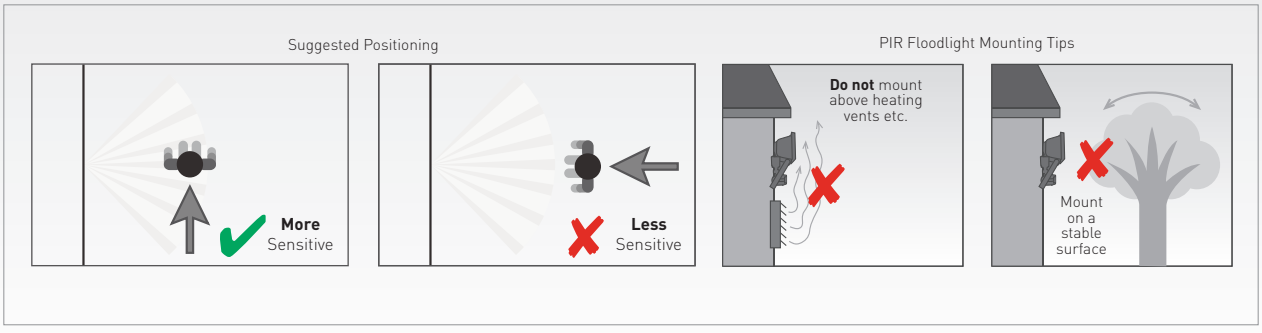
FEATURE	BENEFIT
Stylish polycarbonate design	Will not rust. Available in both black and white
CREE COB LED	Industry leading performance giving up to 2200 lumens
Additional output load	Enabling additional lighting up to 800 watt to be controlled (slave fittings available: SLRF26SB & SLRF26SW)
Adjustable slim line lamp head	Allowing optimum illumination - head turns 50° horizontally and 45° vertically
Adjustable PIR sensor	Up to 240° coverage, 2-10m range and blanking inserts to fully tailor coverage
Auto override	Activates light continuously for 6 hours, ideal when entertaining
Quick fix base	Easy and quick installation allowing 1st fix of base only

Additional 800W output load using SLRF26SB/W



SLRF13/26 Specification

Detection angle	240˚
Sensor range	Up to 12m
Lux adjustment	5 lux to full daylight
Ingress Protection Rating	IP55
Lumen output	SLRF13: 1,100lm SLRF26: 2,200lm
Timer delay	3 seconds - 20 minutes
Lamp head adjustments	Horizontal: 50˚ Vertical:45˚
Operating voltage	220 - 240V
Colour	White or Black
Material	Polycarbonate
LED Colour Temperature	5,000K
Fixing	Quick fix base
Working temperature	-25 - 70˚C



Energy Efficient LED Welcome Lighting

Wall and floor mounted PIR operated welcome lighting.

FEATURE	BENEFIT
Stylish design options	Designs to suit all applications
LED lamps	Low energy costs and low maintenance
Warm white colour: 3,000K	Soft, welcoming light source
201 grade stainless steel	Easy minimal maintenance
PIR movement sensor	Activates lighting only when required

UP TO 88% ENERGY SAVING

only 31p per year to run

*Based on 1hr per night 12p per kwh, original fitting 60W GLS

SLRL1B

SLRL1

SLRL2F /
SLRL2F450

SLRL3

SLRL2

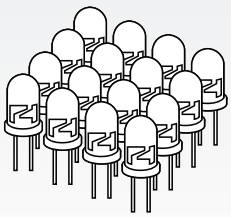
Energy Efficient LED Welcome Lighting

WELCOME LIGHTING SPECIFICATION

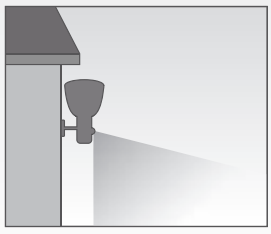
PART CODE	WATTAGE	LUMEN	SENSOR TIME	SENSOR DISTANCE	SENSOR COVERAGE	LED COLOUR	DIFFUSER	MOUNTING
SLRL1B	7W	450LM	5sec to 6min	6M	90°	3000K	Clear	Wall
SLRL1	7W	450LM	5sec to 6min	6M	90°	3000K	Clear	Wall
SLRL2	7W	450LM	5sec to 6min	6M	90°	3000K	Opal	Wall
SLRL2F	7W	450LM	5sec to 6min	6M	90°	3000K	Opal	Floor (900mm)
SLR2F450	7W	450LM	5sec to 6min	6M	90°	3000K	Opal	Floor (450mm)
SLRL3	11W	900LM	4min	8M	90°	3000K	Opal	Wall
SL30	9W	470LM	4min	8M	90°	6000K	Opal	Wall
SL30B	9W	470LM	4min	8M	90°	6000K	Opal	Wall
SL40	0.075W		30s	8M	90°	6000K	Clear	Wall

All units have an IP Rating of IP44

LED Technology



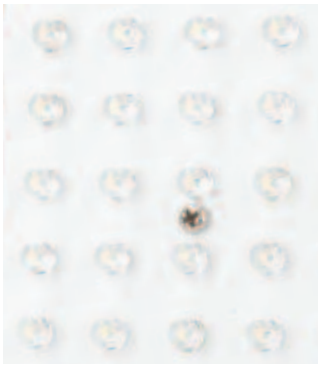
PIR Operated



LED PIR Bulkhead

SL11LED

- 4W energy efficient LED lamp
- PIR activated
- 12m PIR range
- 110˚ coverage
- IP44
- 5sec to 5min timer delay



Bulkhead Dimensions (mm):
110 (w) x 255 (h) x 115 (d)

LED Bulkhead

SL12LED

- 4W energy efficient
- 220-240VAC
- 51x 0.075W LEDs
- Photocell controlled
- IP44

Bulkhead Dimensions (mm):
110 (w) x 265 (h) x 120 (d)

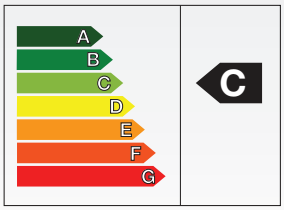
PIR Bulkhead

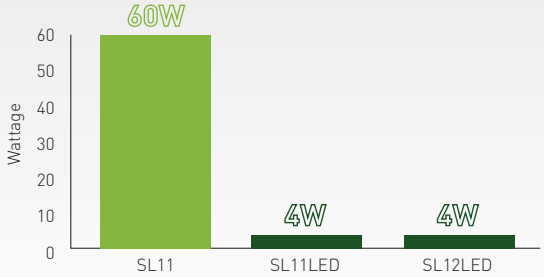
SL11

- 60W maximum ES lamp switch rating
- 5 seconds to 5 minutes timer delay
- 12m approximate PIR range
- 110˚ coverage
- IP44
- Also available in white (SL11W)

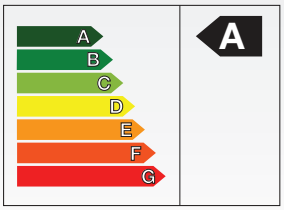
Bulkhead Dimensions (mm):
110 (w) x 255 (h) x 115 (d)

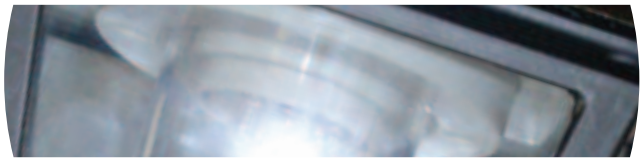
Halogen/Incandescent





LED





LED PIR Bulkhead

SL20

- 6W
- 12 x 0.5W LED lamps
- 12m distance
- 120˚ coverage
- 10 seconds to 4 minutes duration
- IP44

Lantern Dimensions (mm):
158 (w) x 257 (h) x 87 (d)

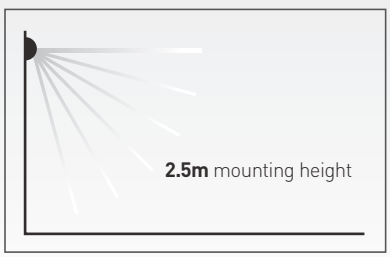
Battery Powered LED PIR Coach Lantern

SL40

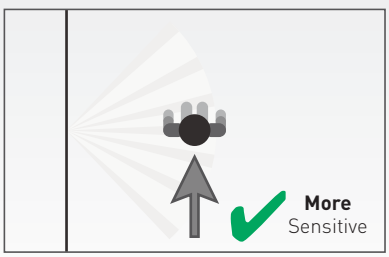
- Battery powered LED sensor light
- 0.075W
- 5 x 0.12W LED lamps
- 8m distance
- 90˚ coverage
- 30 seconds duration
- IP44
- Die cast aluminium
- 4 x C type battery required

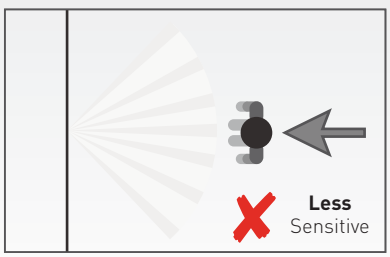
Lantern Dimensions (mm):
147 (w) x 330 (h) x 200 (d)

Suggested Mounting Height



Suggested Positioning





LED PIR Half Lantern

SL30 & SL30W

- 9W
- 18 x 0.5W LED
- 470lm
- 6850K
- 10m distance
- 90˚ coverage
- 3 minute duration
- IP44
- Polycarbonate construction

Lantern Dimensions (mm): 178 (w) x 360 (h) x 178 (d)

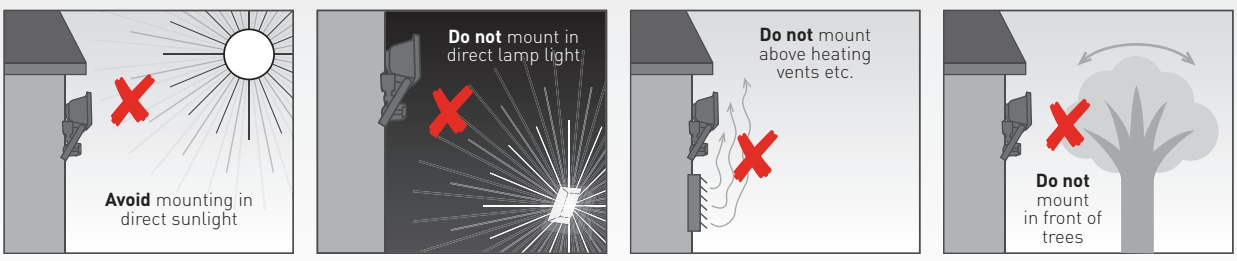
LED Half Lantern

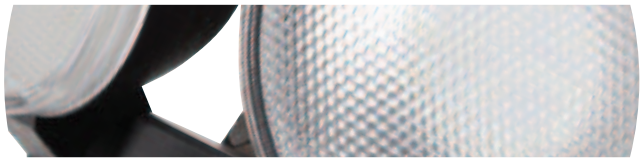
SL30S & SL30SW

- 9W
- 18 x 0.5W LED
- 470lm
- 6850K
- IP44
- Polycarbonate construction

Lantern Dimensions (mm): 178 (w) x 360 (h) x 178 (d)

PIR Floodlight Mounting Tips





2 x 8W LED PIR Twinspot

SL24LED

- 2x8W adjustable LED lamps
- Quick fix base
- IP44
- 1,280 lm
- Adjustable PIR
- 130° PIR coverage
- 8m detection
- 10 seconds to 4 minutes duration

Twinspot (mm): 180 (w) x 208 (h) x 113 (d)

6W Solar Powered LED Security Floodlight

SL24LEDS

- 6W LED
- 270 lumen
- 2.6Ah lithium battery
- 8m PIR
- 130° detection
- Off/On switch

Twinspot (mm): 334 (w) x 189 (h) x 120 (d)

Quick Fix Base -
allows easy first fix

10W Slim Line Floodlight

SLS10

- Energy Efficient LED
- 800LM
- 10W Consumption
- Beam Angle 100º
- 5,000K
- IP65

Dimensions (mm): 180 (w) x 133 (h) x 25 (d)

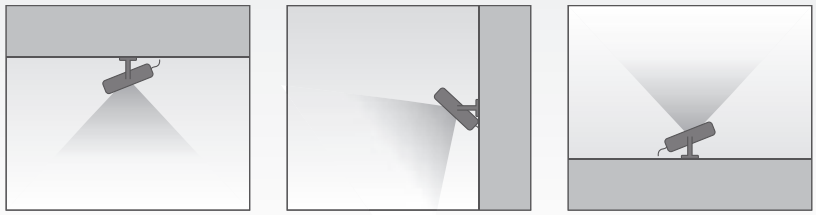
10W Slim Line Floodlight with PIR

SLS10P

- Energy Efficient LED
- 800LM
- 10W Consumption
- PIR Movement
- Sensor 8M
- PIR 110º
- 5,000K
- IP44

Dimensions (mm): 180 (w) x 180 (h) x 36 (d)

Various Mounting Possibilities



Security Lighting
PIR Detection

110˚ Wall/Ceiling PIR

SL01

- 10m PIR
- Wall/ceiling mount with swivel head
- 110˚ 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

PIR Dimensions (mm):
80 (w) x 130 (h) x 65 (d)

180˚ Wall/Ceiling PIR

SL02

- 10m PIR
- Wall/ceiling mount with swivel head
- 180˚ 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

PIR Dimensions (mm):
80 (w) x 130 (h) x 65 (d)

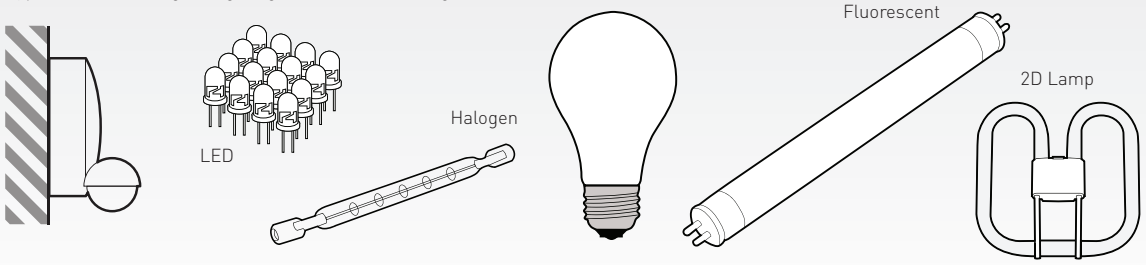
270˚ PIR Sensor

SL03

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

PIR Dimensions (mm):
80 (w) x 130 (h) x -- (d)

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



180° PIR Sensor

SL180N

- 10m wall PIR
- 180° coverage
- Lux adjustment
- 10 seconds to 10 minutes timer relay
- Auto override
- IP44
- No minimum load
- Available in white or black

SL180BN

PIR Dimensions (mm):
70 (w) x 80 (h) x 125 (d)

210° 2000W PIR Sensor

Wall

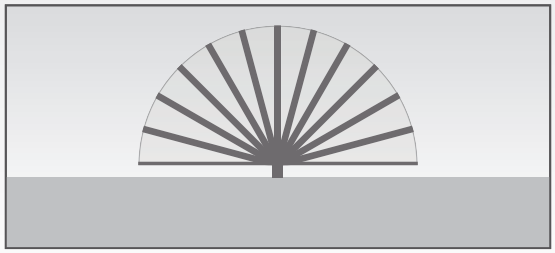
SL04B

- 2000W incandescent
  600W fluorescent
- 210° coverage
- 10m distance
- 10 seconds to 4 minutes duration
- IP44
- Wall/ceiling mount
- Quick fix base

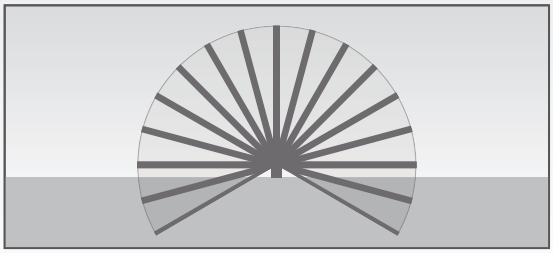
Ceiling

PIR Dimensions (mm): 78 (w) x 100 (h) x 165 (d)

SL180N coverage: 180°

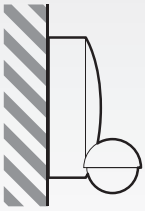


SL04B coverage: 240°

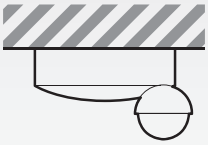


Security Lighting
PIR Detection

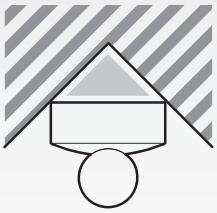
		SL01	SL02	SL03	SL180N	SL04B
Type and size of load to switch						
Incandescent		1000W	1000W	1840W	1700W	2000W
Halogen AC		500W	500W	1000W	850W	1000W
Halogen LV		150W	150W	200W	200W	200W
Fluorescent		300VA	300VA	300VA	300VA	600W
Number of fluorescent fittings	1x18W	6	6	6	6	6
	2x18W	3	3	3	3	3
	1x36W	3	3	3	3	3
	2x36W	2	2	2	2	2
	1x58W	2	2	2	2	2
	2x58W	1	1	1	1	1
LED		120W	120W	150W	N/A	150W
Energy Saving Lamp (PL CFL)		150W	150W	200W	N/A	200W
Minimum Load Requirement		N/A	N/A	N/A	N/A	N/A
Coverage						
Distance		10m	10m	10m	10m	10m
Angle		110˚	180˚	270˚	180˚	270˚
Mounting Position						
Wall		✔	✔	✔	✔	✔
Corner		✘	✘	✔	✘	✘
Ceiling		✔	✔	✔	✘	✔
Installation Height		2.5m	2.5m	2.5m	2.5m	2.5m
Adjustments						
Lux		5 - ∞	5 - ∞	5 - ∞	10 - 10,000	10 - 10,000
LED Indication Mode		Off/Warning/Watch	Off/Warning/Watch	Off/Warning/Watch	N/A	N/A
Override		Separate switch live	Separate switch live	Separate switch live	Yes (off on off on)	No
Sensitivity		1-10m	1-10m	1-10m	N/A	2-10m
Time		6 secs to 10 mins	6 secs to 10 mins	6 secs to 10 mins	10 secs to 10 mins	10 secs to 4 mins
Lens Shield		✔	✔	✔	✘	✘
Environmental						
IP Rating		IP44	IP44	IP44	IP44	IP44
Operating Temperature		-20˚C - +45˚C	-20˚C - +45˚C	-20˚C - +45˚C	-10˚C - +40˚C	-10˚C - +40˚C
Warranty		2 years	2 years	2 years	1 year	1 year



Wall Mounted



Ceiling Mounted



Internal Corner
SL03 only

External Corner
SL03 only

CHALLENGER

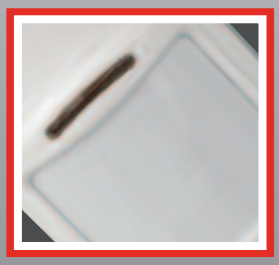
YOUR PARTNER IN A MORE SECURE FUTURE

Security Products

INTRUDER ALARMS

Challenger Security Products have constantly evolved over 30 years.

LED, wireless and GSM technology all feature in the current portfolio and our FORCE 10 range goes from strength to strength with the addition of our Smart-Force wireless intruder and home automation range.



Making your home **safer**, **smarter** and **greener**

ASFK1

UPGRADE FUNCTIONALITY

SmartForce is supplied with a generous, free of charge service package, which remains free for the life of the system. If additional services or storage are required, preset subscription packages are available, each offering varying degrees of functionality.

SECURE DATA

Rest assured all data stored in our two cloud servers in separate locations is secure with rigorous authentication protocols and the built in redundancy function ensures data is readily accessible at any time from either server.

ONLINE TECHNICAL SUPPORT TOOLS

Challenger provides free telephone technical support, backed up through a comprehensive remote management dashboard allowing secure, real time viewing of user status and post event history enabling a quick and efficient response.

KIT CONTAINS:

SmartForce hub, PIR movement sensor, door/window contact, radio fob, solar wireless sounder and cloud service package.

SMARTFORCE SERVICE PACKAGE

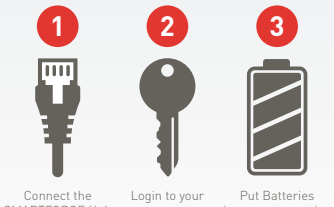
Notifications	Yes
Log history	Last 100
Energy management	Yes
Max. IPCAM supported per account	4 cameras
Viewing period	30 seconds
Max. resolution	720p
Max. camera storage per account	7 days of video files (or latest 50 clips)

ALARM

Secure your family and home with instant notifications to your mobile or tablet when any event occurs, whether intruder, fire or flood, SmartForce has it covered

PLUG & PLAY AND WIRELESS

Easy installation with wireless devices and no tools needed. Wireless devices have up to 250m range with 2 way signals to avoid false alarms.



DETECTION

CCTV

ALERT

HOME AUTOMATION

CONTROL

ACCESSORIES

WIRELESS PIR SENSOR

ASFP1

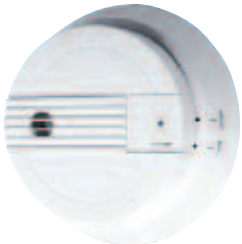
- 9M 110° coverage (adjustable)
- 200m operating range (free space)
- Tamper protection
- 868MHz frequency
- 1,700mAh Lithium battery

WIRELESS DOOR/WINDOW CONTACT

ASFC1

- Miniature size
- 200m operating range (free space)
- Tamper protection
- 868MHz frequency
- 620mAh Lithium battery

WIRELESS SMOKE DETECTOR EN-14605 APPROVED

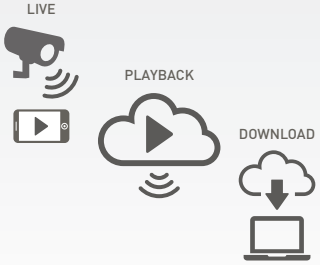


ASFSM

- Optical sensing technology
- Built in local sounder
- 200m wireless range
- 868MHz frequency
- 9V/540mA battery

VIDEO SURVEILLANCE

Watch and monitor your home remotely with live HD video, playback footage and downloaded video clips. Videos are stored securely in the cloud and on to internal storage.



HOME AUTOMATION

Control & Dimming
Turn appliances on and off and adjust light brightness

Energy Saving
Monitor power consumption

Scenes & Scheduling
Start a series of actions automatically

Environment Monitor
Monitor the temperature, air quality and more

DETECTION

CCTV

ALERT

HOME AUTOMATION

CONTROL

ACCESSORIES

WIRELESS WATER LEAK SENSOR

ASFW

- 3m sensor probe cable
- Supplied with cable supports
- LED indication
- 868 frequency
- 3 x AA 1.5V batteries

INDOOR HD WIFI CCTV CAMERA

ASFCAM1

- 720P HD camera
- Wall/ceiling bracket
- Audio
- PIR sensor
- WPS function
- WIFI
- RJ-45 LAN port

WIRELESS INTERNAL SOUNDER WITH VOICE PROMPTS

ASFS1

- Selectable sound levels: 90 or 100db/1 metre
- Strobe unit: red/green
- Voice prompts
- Can be used as a local control unit with SmartForce devices

Icon based menus

DETECTION

CCTV

ALERT

HOME AUTOMATION

CONTROL

ACCESSORIES

WIRELESS SOLAR POWERED EXTERNAL SOUNDER

ASFSB

- 100db/1 metre
- Anti tamper protection
- Backup battery included: 6V 1.2Ah

WIRELESS CONTROL FOB

ASFFOB

- Arm, disarm, part arm function
- Panic alarm function
- 50m operating range
- 620mAh Lithium battery

WIRELESS REMOTE KEYPAD

ASFKP

- Backlit keys
- LED indication for low battery
- Full, part 1, part 2 set
- 868MHz frequency
- 3 x AA 1.5V batteries

Easy system configuration

DETECTION
CCTV
ALERT
HOME AUTOMATION
CONTROL

ACCESSORIES

WIRELESS RF PLUG/SOCKET WITH ENERGY MONITORING

ASFMP

- 70m range RF switch
- 6.9 - 3,000W loads switching capacity
- Energy monitor through app
- 868 MHz frequency

WIRELESS CONTROLLED LED LAMP

ASFLED

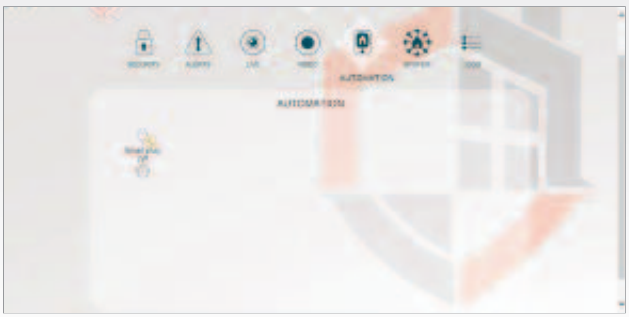
- 6W LED lamp
- 4,000K colour temperature
- E27 connector
- 868 frequency

BATTERY BACKUP

ASFHB

- SmartForce Hub battery backup
- 6V 2,100mAh
- NiMH 5 cell

Control and view power consumption remotely



Making your home **safer**, **smarter** and **greener**

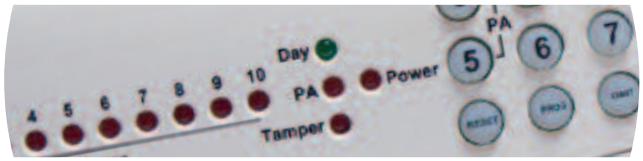
Full **control** and **management** through the web and smart device app

Download the FREE SmartForce app now!

Download on the App Store

GET IT ON Google Play

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 Dimensions (mm):
253 (w) x 195 (h) x 61 (d)

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 Dimensions (mm):
253 (w) x 195 (h) x 61 (d)

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

10 Zone Panel Dimensions (mm):
253 (w) x 195 (h) x 61 (d)

ACCESSORIES

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

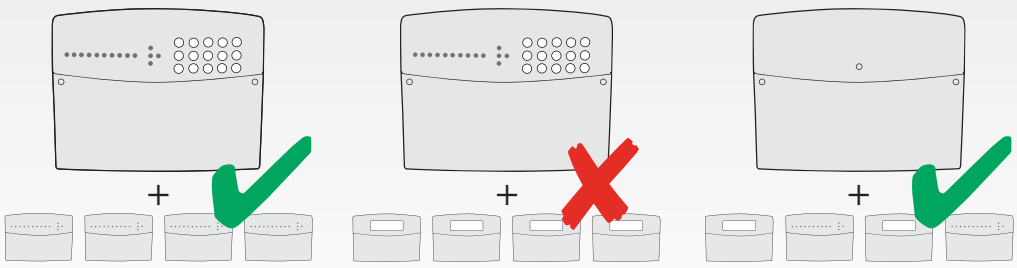
AP11RKP

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

AP11RKPL

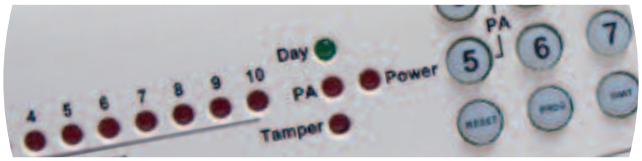
12V 2ah SLA Battery
(Maximum capacity for the Force 10 panel range)

AA61



AP10LED
LED Keypads only

AP11
LED or LCD Keypads



FORCE-10 Alarm Panel Range		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 16Ω, 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				●	●	●

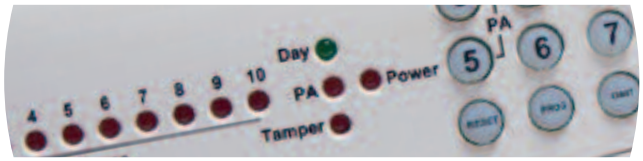
○ Facility available if using an additional LCD type keypad

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 AD04N PIR detectors
- AU1000WBX bell box
- 100m alarm cable
- 2 x AC01 surface door window contacts

10 Zone Panel Dimensions (mm):
253 (w) x 195 (h) x 61 (d)

Remote Keypad Kit

APF11KITR

- AP11 LED 10 zone alarm panel and LED keypad
- AA60 12v 1.2AH panel battery
- 3 x AD04N PIR detectors
- AU1000WBX bell box
- 100m alarm cable
- 2 x AC01 surface door window contacts

Remote Keypad Dimensions (mm):
130 (w) x 90 (h) x 30 (d)

LCD Keypad Kit

APF11KITRL

- AP11 LED 10 zone alarm panel and LCD keypad
- AA60 12v 1.2AH panel battery
- 3 x AD04N PIR detectors
- AU1000WBX bell box
- 100m alarm cable
- 2 x AC01 surface door window contacts

LCD Keypad Dimensions (mm):
130 (w) x 90 (h) x 30 (d)

ACCESSORIES

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

AP11RKP

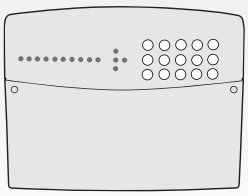
Remote LCD Keypad
130mm (w) x 90mm (h)

AP11RKPL

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

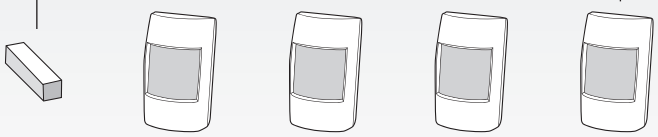
AA61

10 Zone Panel



1 Detection Device per Zone

Default Detection Zone Programming (can be changed)



Zone 1	Zone 2	Zone 3-8	Zone 9	Zone 10
Entry/Exit	Walkthrough (inhibit zone)	Full Alarm	Part Set	Disabled

- Standby applications
- 5 year normal service
- 6 months shelf life (82% capacity)
- Sealed lead acid
- Non spillable

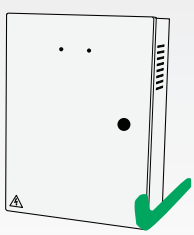
Specification

Model	Voltage	AMP Hour	Depth (mm)	Width (mm)	Height (mm)	Terminal Type
AA60	12	1.2	98	45	59	Spade
AA61	12	2.2	178	34	60	Spade
AA62	12	3	134	67	67	Spade
AA63	12	7	151	65	100	Spade
AA64	12	12	151	98	100	Spade
AA65	12	17	181	77	167	Nut/Bolt
AA66	12	24	166	175	125	Nut/Bolt
AA67	12	38	196.5	165	170	Bolt
AA68	12	65	330	172	173	Bolt
AA70	6	1.2	98	25	52	Spade
AA71	6	4	70	48	101	Spade
AA72	6	12	151	50	94	Spade

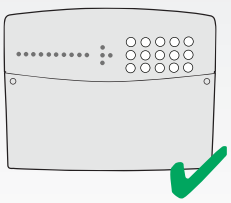
Spade Terminal

Nut/Bolt Terminal

Bolt Terminal

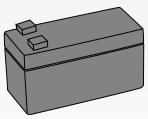


PSU

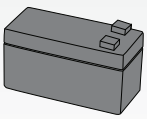


Panel

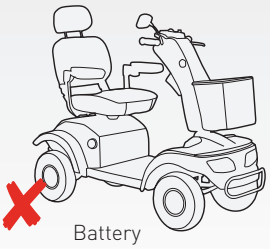
Batteries ideal for use in trickle charge circuits such as PSUs and alarm panels. Batteries are not recommended for constant cyclic use.



Battery

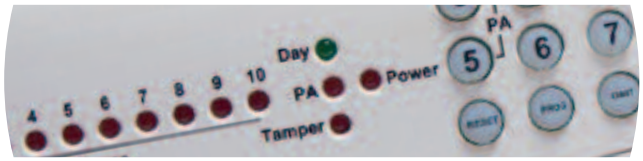


Battery



Battery Operated Buggy

Alarm Detector Terms



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

Microwave
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.

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

Pet Immune
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.

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

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

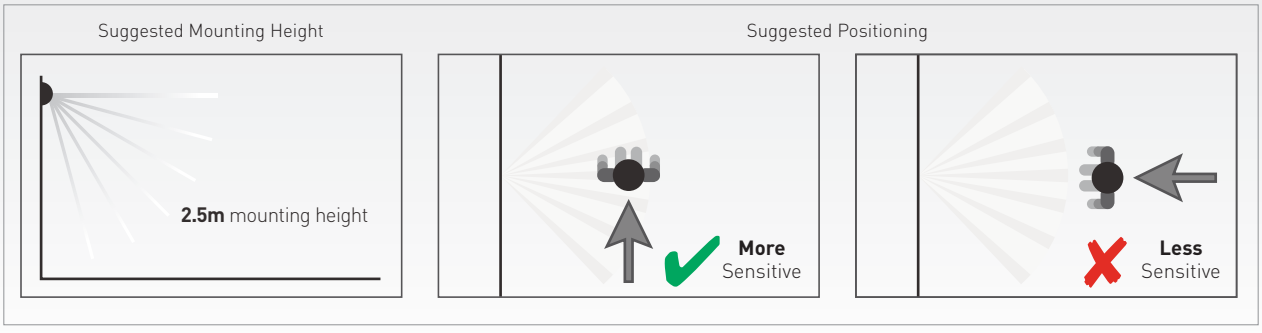
Pulse Count
Detectors can be set up to only activate after a number of triggers within a period of time. Helps reduce false alarms.

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

Fresnel Lens
Used to focus distant infrared energy onto a PIR sensor.

Double Element Pyro
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.



12m 110° PIR

AD04N

- 12m 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

PIR Dimensions (mm):
52 (w) x 90 (h) x 42 (d)

12m 110° Pet PIR

AD32

- 12m 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

PIR Dimensions (mm):
60 (w) x 120 (h) x 44 (d)

12m 90° Dual Tech PIR

AD33

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

PIR Dimensions (mm):
60 (w) x 120 (h) x 44 (d)

11m 360° Ceiling PIR

AD03

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

PIR Dimensions (mm):
86 (dia) x 25 (d)

	AD04	AD32	AD33	AD03
Kitchen	✘	✘	✔	✘
Conservatory	✘	✘	✔	✘
Living Room	✔	✔	✔	✔
Looking at a Light Source	✘	✘	✔	✘
Office	✔	✘	✔	✔
Warehouse	✘	✘	✔	✘

Surface Contact (Normally closed)

AC01

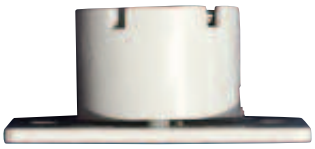
- Surface contact
- 10mm maximum spacing
- Normally closed contact
- Available in brown - AC01/B
- Silver coloured screws for alarm zone

Contact Dimensions (mm):
68 (w) x 15 (h) x 12 (d)

Flush Contact (Normally closed)

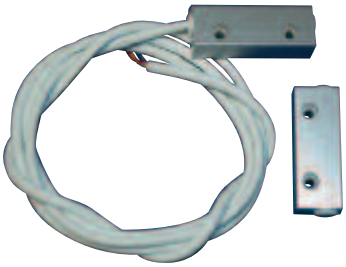
AC02

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



Contact Dimensions (mm):
25 (w) x 35 (h) x 17 (d)

Aluminium Contact (Normally closed)

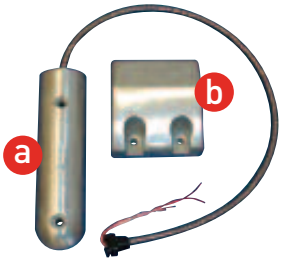


AC03

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

Contact Dimensions (mm):
48 (w) x 18 (h) x 12 (d)

Roller Shutter Contact (Normally closed)

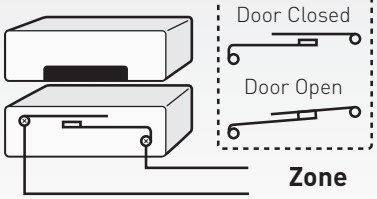


AC04

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

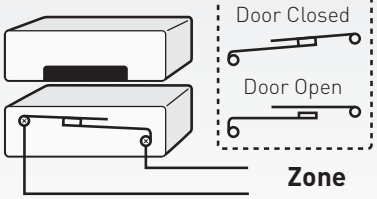
Contact Dimensions (mm):
a: 150 (w) x 40 (h) x 20 (d)
b: 75 (w) x 75 (h) x 40 (d)

Normally **Open**



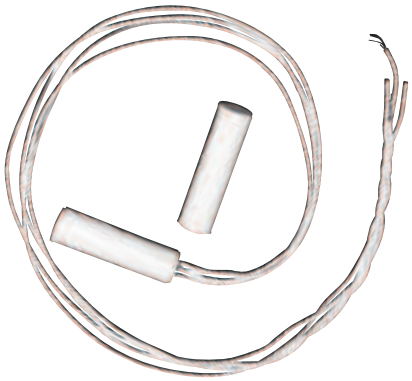
No contact of reeds when contacts are together.

Normally **Closed**



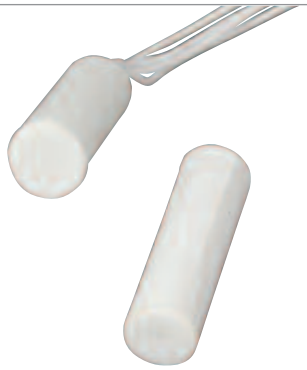
Reeds touch and make circuit when contacts are together.
Circuit breaks when contacts moved apart.

Flush Contact (Normally closed)



AC07

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

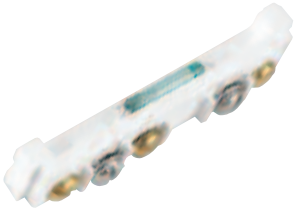


Contact Dimensions (mm):
8 (dia) x 30 (l)

Surface Contact (Normally open)

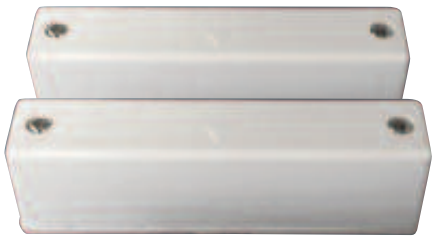
AC08

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



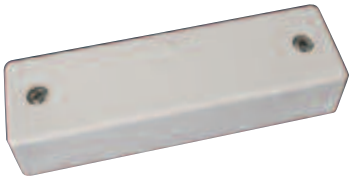
Contact Dimensions (mm):
68 (w) x 15 (h) x 12 (d)

Heavy Duty Surface Contact (Normally closed)



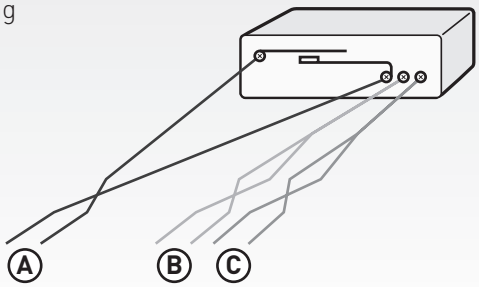
AC09

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



Contact Dimensions (mm):
85 (w) x 19 (h) x 24 (d)

Contact Wiring



Ⓐ 2 cores to zone in panel
(Connect to screws that hold reed)

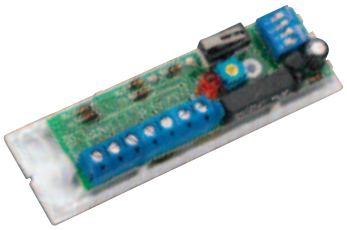
Ⓑ 2 cores to tamper circuit
(Twisted together)

Ⓒ Spare Cores

Shock Sensor

AA11

- Vibration sensor
- Surface mount
- Selectable 1 or 2 pulse count
- LED indication
- Tamper resistant cover
- Perimeter protection



Sensor Dimensions (mm):
87 (w) x 28 (h) x 22 (d)

PA Button (Plastic)

AA02

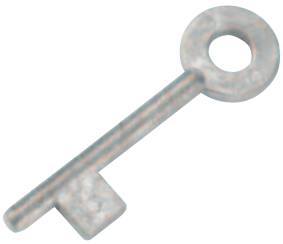
- Plastic personal attack button
- Latching
- Key reset

Button Dimensions (mm):
54 (w) x 70 (h) x 28 (d)

PA Button (Metal)

AA03

- Metal personal attack button
- Latching
- Key reset

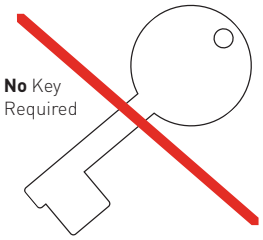


Button Dimensions (mm):
65 (w) x 83 (h) x 30 (d)

PA Button (Plastic, Non Latching)

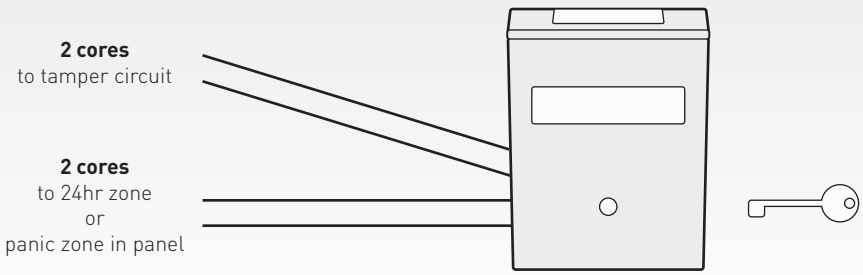
AA04

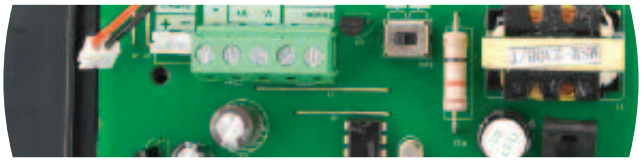
- Plastic personal attack button
- Non latching
- Self reset



Button Dimensions (mm):
60 (w) x 60 (h) x 20 (d)

Panic Attack Button

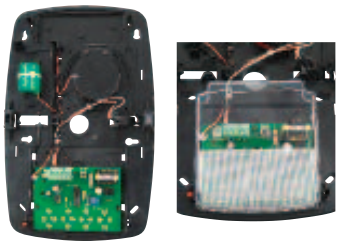




External Sounder 110DB LED

AU1000WBX

- External alarm sounder
- LED strobe technology
- 110DB
- Protected PCB
- Front and rear tamper
- SAB/SCB switching
- LED status indication

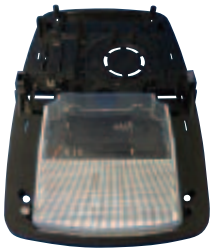


Sounder Dimensions (mm):
194 (w) x 300(h) x 56.5 (d)

Dummy External Sounder

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)



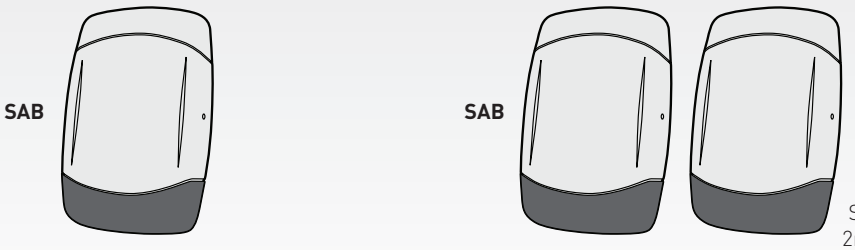
Sounder Dimensions (mm):
194 (w) x 300(h) x 56.5 (d)

Dummy External Sounder

AB1000WBXB

- External dummy alarm sounder
- Matching design to live AU1000WBX

Sounder Dimensions (mm):
194 (w) x 300(h) x 56.5 (d)



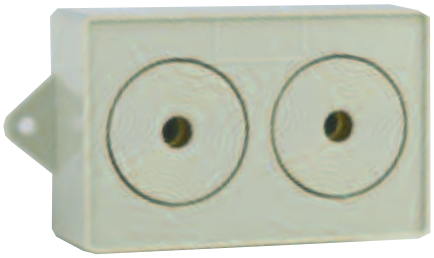
1 External Sounder

2 External Sounders

SCB option used for 2nd external sounder on a system

Internal Sounders & Speakers

Internal Sounder 104DB



AS04

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

Sounder Dimensions (mm):
176 (w) x 112 (h) x 45 (d)

Internal Sounder 111DB

AS05

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

Sounder Dimensions (mm):
105 (w) x 105 (h) x 33 (d)

Internal Speaker 16Ω

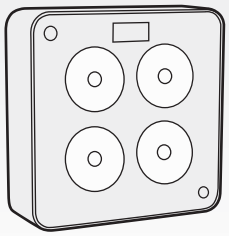
AS14

- Extension speaker
- Entry/exit tone as well as full alarm sound
- 16Ω

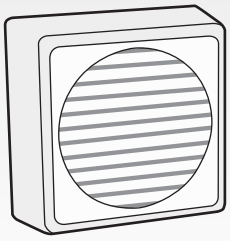
Sounder Dimensions (mm):
120 (w) x 120 (h) x 55 (d)

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.

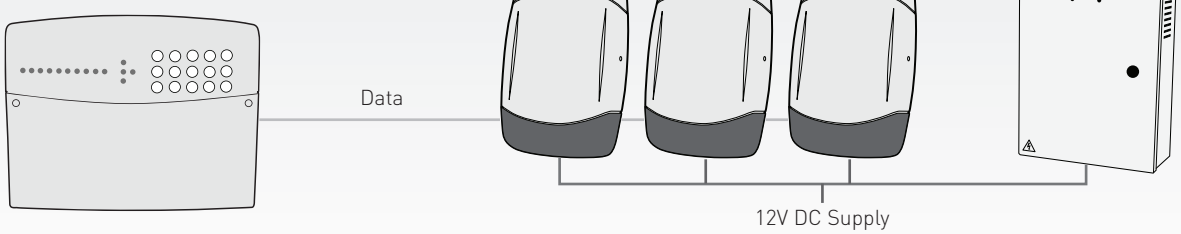
Features & Benefits

- 1amp to 5amp 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

Technical 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

Use power supplies on systems with many 12V devices



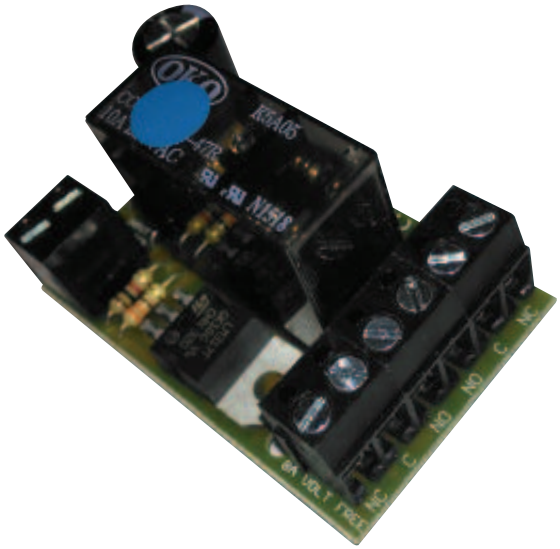
Auto Dialler

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)

Dialler Dimensions (mm):
57 (w) x 120 (h) x 35 (d)

Two Pole Volt Free Relay

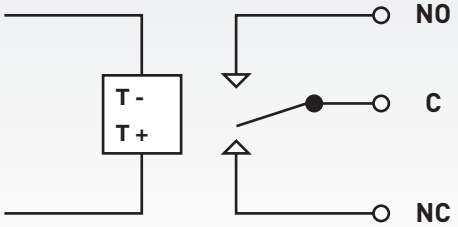


AVHLR

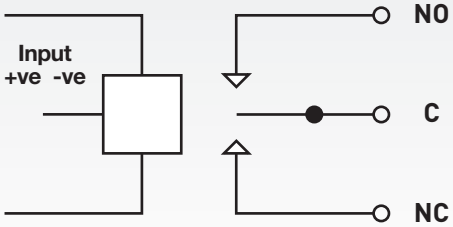
- 6 - 28v AC/DC
- 70mA average (depends on voltage)
- Two pole charge over contacts, volt free (dry)
- 8A at 240A, 8A at 30VDC each
- Red LED

Dialler Dimensions (mm):
33 (w) x 28 (h) x 53 (l)

AVHLR: 0-60 seconds



AVHLR: 0-60 minutes + delay



Wireless Alarm Kit - APFWKH2

- Hybrid intruder alarm kit
- 10 zones
- Wired and wireless devices capability
- Wireless external sounder

Kit Comprises of:

- 1 x Hybrid Alarm Panel
- 1 x back up battery (12VDC 2.1ah)
- 2 x wireless contacts
- 2 x wireless PIRs
- 1 x external sounder wireless with PSU

External sounder is wireless transmission although power is required (PSU supplied)

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 100m
Wireless remote key range	Up to 50m
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

Wireless 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

ACCESSORIES

Wireless PIR Detector
70mm (w) x 105mm (h) x 60mm (d)

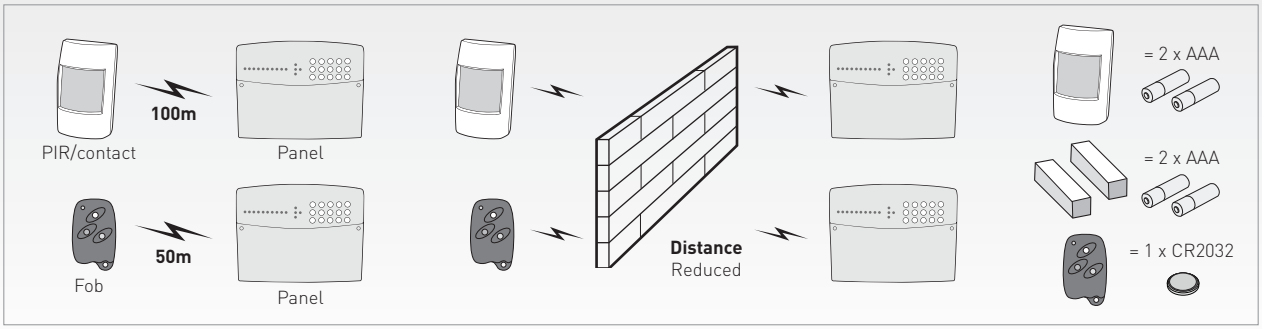
ADFW1

Wireless Contact
a: 66mm (w) x 12mm (h) x 13mm (d)
b: 120mm (w) x 35mm (h) x 25mm (d)

ACFW1

Radio Fob
37mm (w) x 61mm (h) x 13.5mm (d)

AUWF0B



Wireless Alarm Kit - APFWKGSM

- Wireless alarm system with GSM dialler
- Alarm activation notification via GSM network - no phone line required (SIM card not included)
- Set and disarm the system via mobile telephone, radio fob or on-board keypad
- On-board LCD screen for ease of use
- 10 fully programmable wireless zones
- Wireless range of up to 50m
- Up to 18 months battery life on wireless devices (AAA style)

Kit Comprises of:

- 1 x discreet, wireless alarm panel
- 1 x wireless PIR detector
- 1 x wireless contact
- 1 x remote control
- 1 x wired internal siren
- 1 x power supply

ACCESSORIES

Wireless PIR Detector
70mm (w) x 105mm (h) x 60mm (d)

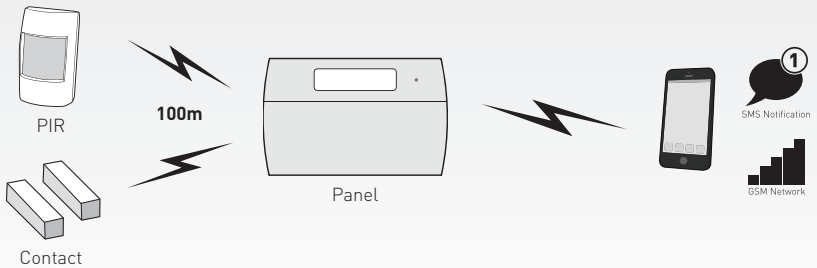
ADFW1

Wireless Contact
a: 66mm (w) x 12mm (h) x 13mm (d)
b: 120mm (w) x 35mm (h) x 25mm (d)

ACFW1

Radio Fob
37mm (w) x 61mm (h) x 13.5mm (d)

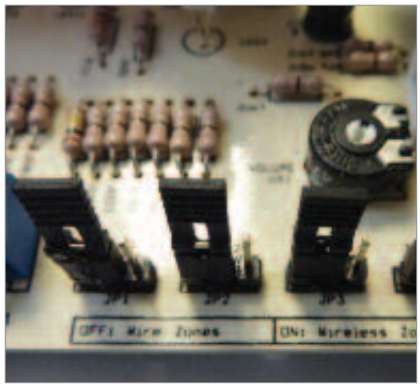
AUWF0B



Hybrid Wireless Panel

APFWP

- Selectable wired or wireless zones
- 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

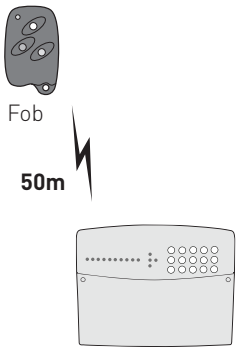


Panel Dimensions (mm):
253 (w) x 195 (h) x 61 (d)

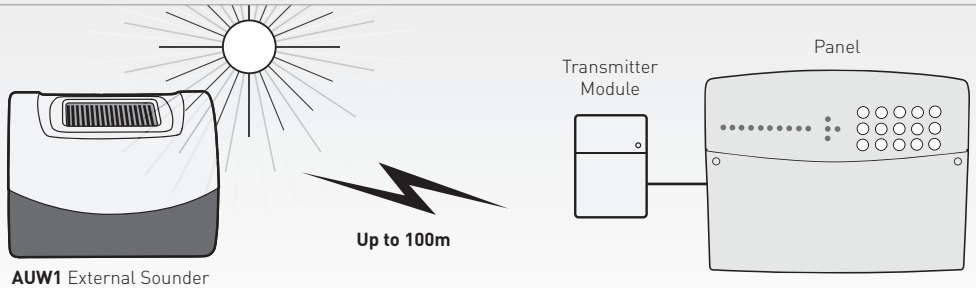
Radio Fob

AUWFOB

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



Fob Dimensions (mm):
37 (w) x 61 (h) x 13.5 (d)



AUW1 External Sounder no cables, solar

AUW1 can be used with **any** security alarm panel

Hybrid/GSM Ancillaries

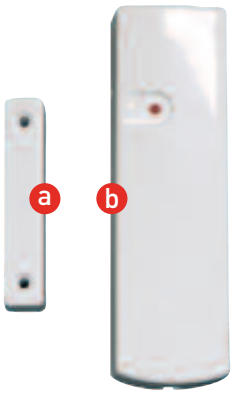
Wireless PIR Detector

ADFW1

- 12m range
- 110° coverage
- AAA battery powered (x2)
- Up to 18 month battery life
- Wall or corner mount
- Transmission range up to 100m

PIR Dimensions (mm):
70 (w) x 105 (h) x 60 (d)

Wireless Contact



ACFW1

- AAA battery powered (x2)
- Up to 18 months battery life
- Transmission range up to 100m
- Expandable with wired contacts

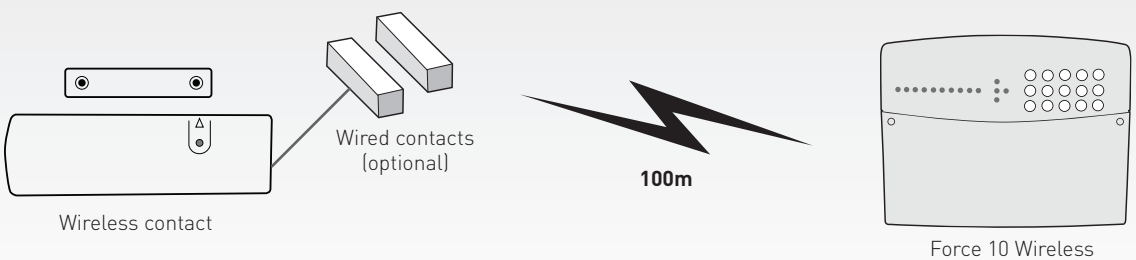
a: 66 (w) x 12 (h) x 13 (d)
b: 120 (w) x 35 (h) x 25 (d)

Wireless External Sounder

AUW2

- For use with APFWP
- PSU included
- 105 DB
- Up to 100m wireless transmission

Dimensions (mm):
200 (w) x 340 (h) x 74 (d)



FACINA
SURVEILLANCE

CCTV

CCTV HD SYSTEMS

CCTV Camera Specifying

Fill in our handy pull out survey for Challenger to supply a full system quotation. Specifying the correct CCTV camera is dependent on receiving accurate information.

1) What is the purpose of the camera?
2) Is the camera required indoors or outside?
3) Is there adequate lighting?
4) Wall, ceiling or pole mounted?
5) What type of image is required - observation, recognition or identification? (See below for definitions)
6) What distance is the camera to be from the object being viewed?
7) Are there any special requirements? E.g. vehicle registration capture.

ID

ID
3.5m maximum horizontal view

R

RECOGNITION
15m maximum horizontal view

O

OBSERVATION
60m maximum horizontal view

The Facina range of equipment is straight forward to install, simple to set up and easy to use.

From small, 4 camera kits to remotely monitored commercial systems, Facina provides the solution, all in stunning HD resolution.

True 1080N HD CCTV KIT

VKFK4AHD2 - 4 camera true 1080N HD CCTV System

- 4 x 2MP HD true day/night dome cameras (see spec below)
- 4 channel AHD 1080N 2 MP recorder
- 1TB surveillance grade hard drive
- HD low loss camera cables (4 x 18m)
- USB mouse
- IR remote control

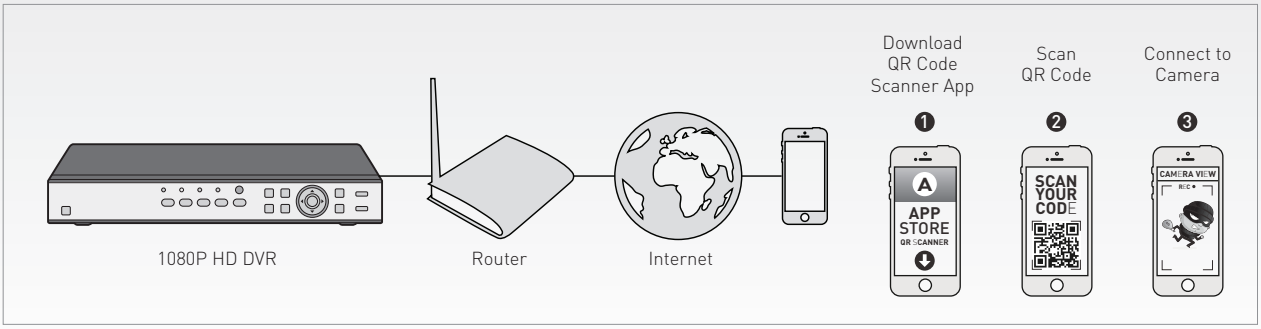
Download on the App Store

GET IT ON Google Play

HD 720P

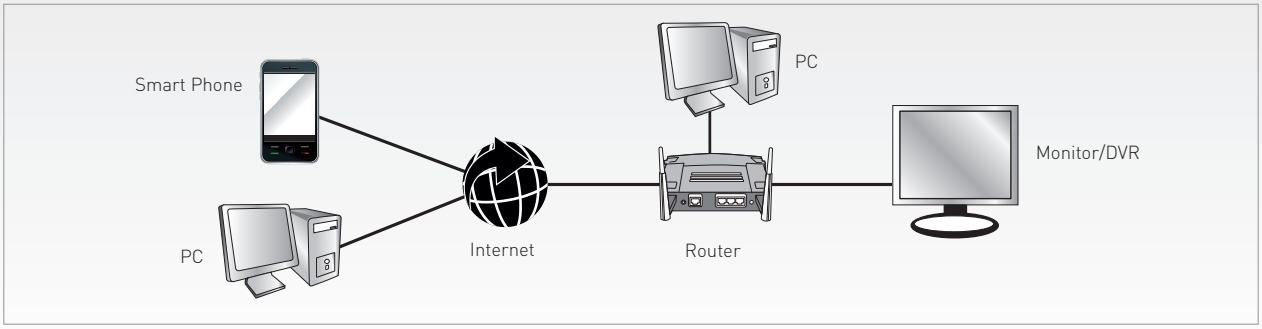
Camera Specification

- Full HD dome camera
- Sony 1/2" cmos chip
- 1920x 1080 pixel resolution 2MP
- On-screen display
- 3.6mm lens
- 20m InfraRed day/night capability
- Privacy mask
- Motion detection
- IP66



DVR Specification

Video channels	4 x AHD BNC
Recording resolutions	1080N 2MP (+720, D1, HD1, CIF)
Audio inputs	4 x RCA
Operation	Multiplex live, playback, record, network simultaneously
Monitor outputs	HDMI + VGA
Remote setup	Easy P2P with QR code
Footage setup	USB support for back up via flash drive
Alerts	Email notifications
Simultaneous online users	9 (with dual stream capability)
Remote app	VideoDefence 2 for Android & iPhone
PT2 speed done control	Yes, Pelco-D, Pelco-P, RS485



Camera Recognition Level

ID Identify a person's face unknown to you

R Recognise a person already known

O General detection or movement

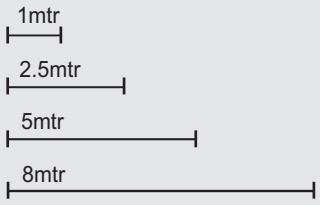
2 Mega Pixel HD Performance

ID 5 pixels per cm (3.5m maximum width view)

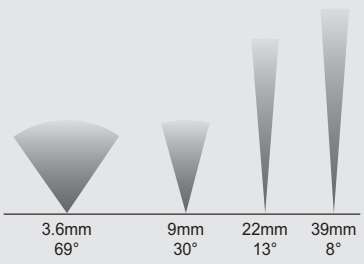
R 1.25 pixels per cm (15m maximum width view)

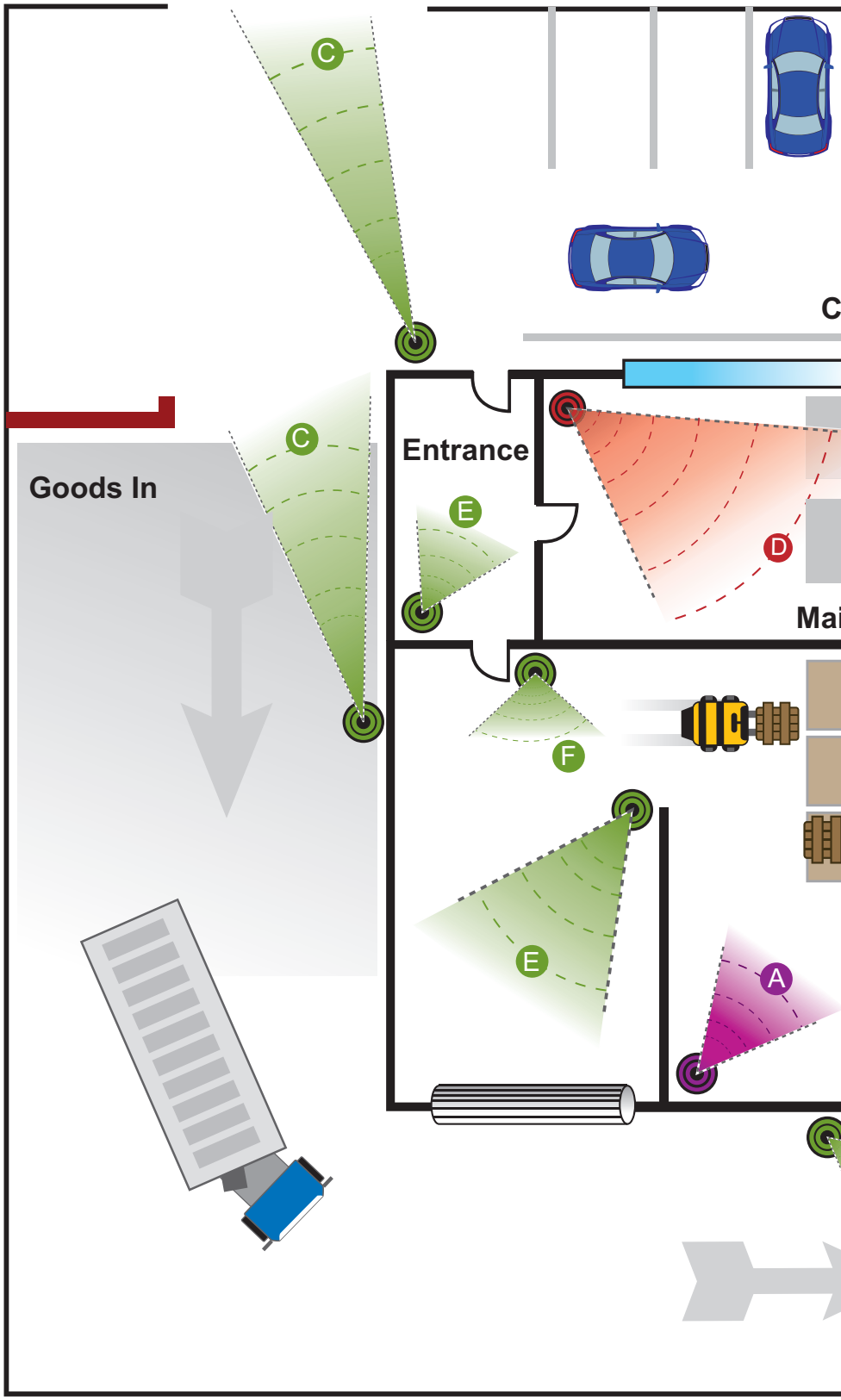
O 0.25 pixels per cm (60m maximum width view)

Drawing Scale



Lens Angles





Camera Types

A VKC2MPB

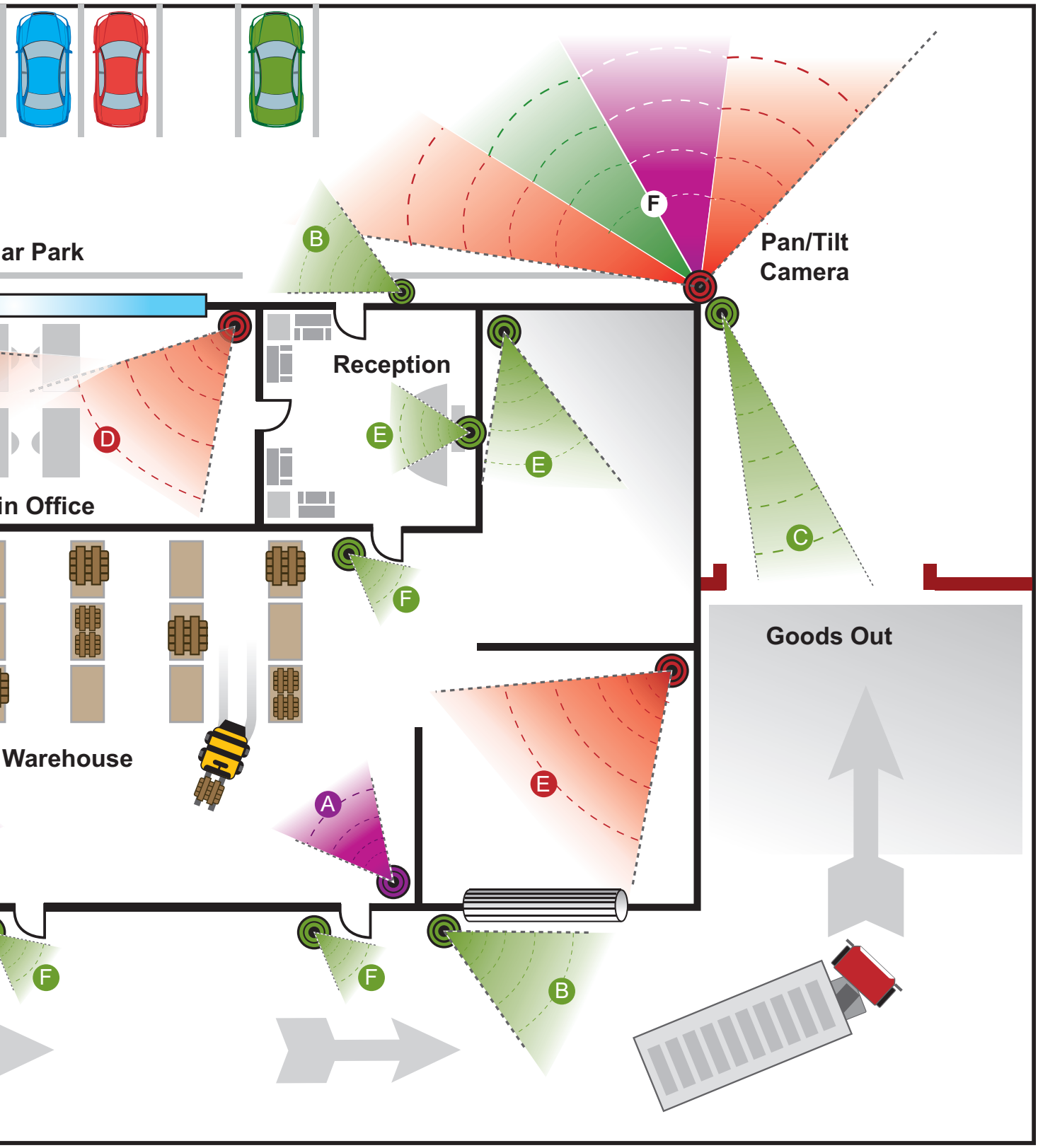
3.6mm

B VKC2MPBV

2.8 - 12mm

C VKC2MPD

3.6mm



D

VKC2MPDV

2.8 - 12mm

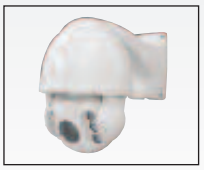
E

VKC2MPVRD

2.8 - 12mm

F

VKC2MPSD



3.9 - 39

1080P AHD
2 Megapixel Cameras

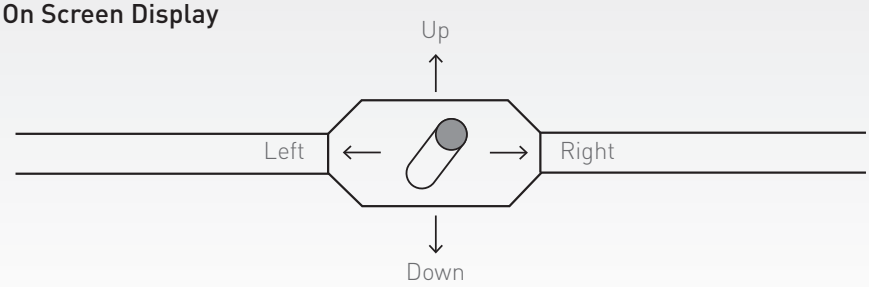
The Facina range of 1080P HD cameras connect via industry standard CCTV coax cable and BNC type connectors.

All cameras in the range are also backwards compatible with existing analogue DVRs plus added benefits of the new AHD technology.

All cameras include as standard:

- Sony1/2" cmos chip
- 1920 x 1080 pixel resolution
- On screen display menu
- IP65 or greater
- InfraRed illumination
- Privacy zones
- Back light compensation (BLC)
- Wide dynamic range (WDR)
- True day/night
- Automatic gain control (AGC)
- High light compensation (HLC)
- Digital noise reduction (DNR)
- Motion detection
- Flip/mirror image function
- Sens-up low light function
- Shutter adjustment

On Screen Display



Menus navigated with built in controller on camera cable or through DVR UTC button on screen,

HD Dome Fixed 2MP Camera

VKC2MPD

All standard features PLUS
- 3.6mm lens
- IP66
- 20m InfraRed

Camera Dimensions (mm):
76 (h) x 94 (dia)

HD Dome 2MP Auto Focus Camera

VKC2MPDV

All standard features PLUS
- 2.8 - 12mm lens
- Motorised zoom control
- Auto focus
- IP66
- 20m InfraRed

Camera Dimensions (mm):
114 (h) x 120 (dia)

HD Vandal Resistant Dome 2MP Autofocus Camera

VKC2MPVRD

All standard features PLUS
- Vandal resistant polycarbonate diffuser
- 2.8 - 12mm lens
- Motorised zoom control
- Auto focus
- IP66
- 20m InfraRed

Camera Dimensions (mm):
100 (h) x 40 (d)

ID Identify a person's face unknown to you

R Recognise a person already known

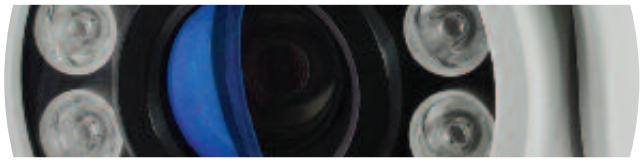
O General detection or movement

Lens Selection

Object Distance

Lens	1m	2m	3.5m	5m	7.5m	10m	15m	20m
3.6mm								
8mm								
12mm								
22mm								

1080P AHD
2 Megapixel Cameras



HD Bullet 2MP Camera

VKC2MPB

All standard features PLUS
- 3.6mm lens
- IP66
- 20m InfraRed
- Cable managed bracket

Camera Dimensions (mm):
182 (l) x 65 (dia)

HD Bullet 2MP Auto Focus Camera

VKC2MPBV

All standard features PLUS
- 2.8 - 12mm lens
- Motorised zoom control
- Auto focus
- IP66
- 40m InfraRed
- Cable management bracket

Camera Dimensions (mm):
345 (l - inc sun shield) x 100 (dia)

HD PTZ Speed Dome Camera

VKC2MPSD

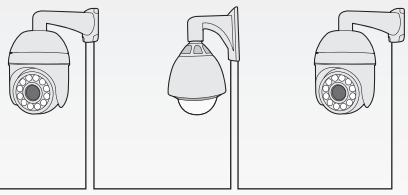
All standard features PLUS
- 360˚ continuous pan
- 90˚ tilt
- 180˚ auto flip
- RS485 control Pelco-D/Pelco-P
- 128 presets
- Auto tour x 4
- Proportional zoom
- Home/park function
- IR sensitivity adjustment

Camera Dimensions (mm):
205 (h) x 210 (d) x 128 (dia)

RS485 Controller

VKFJ

- RS485 controller
- Zoom control via 3 axis twist joystick
- Variable speed
- Pelco-D, Pelco-P protocol
- Adjustable baud rate
- On screen LCD display
- Up to 128 camera connectivity



R5485 Twisted Pair Cable - up to 128 camera connectivity

Recording Resolutions

Resolution Type	Resolution Dimension	KbPS bit rate
1080P	1,920 x 1,080 pixels	4,096
720P	1,280 x 720 pixels	2,048
D1	704 x 576 pixels	1,536
DH1	704 x 288 pixels	1,024
CIF	352 x 288 pixels	768

CCTV Abbreviations

Abbreviation	Description
PPC	Pixels per centimetre
KbPS	Kilobits per second
HDD	Hard Disk Drive
MB	Megabyte
GB	Gigabyte (1,024 megabytes)
TB	Terabyte (1,024 gigabytes)

Recording Times

Resolution/KbPS	1 camera/1 hour (MB)	1 camera/1 day (GB)
CIF/768	336MB	8GB
HD1/1,024	448MB	10GB
D1/1,536	772MB	18.5GB
720P/2,048	996MB	23.9GB
1080P/4,096	1,800MB	43.2GB

Example

4TB HDD 24/7 recording 8 cameras 1080P

1 Day = 345.6GB

4TB = 11.8 days recording

DVR Resolution Chart

AHD Full HD Digital Video Recorders

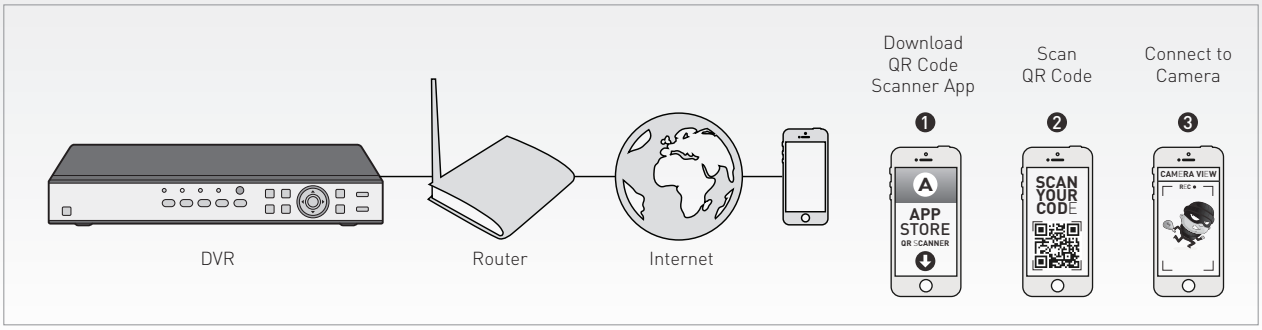
The Facina range of AHD Digital Video Recorders offer true High Definition recording capability with the added benefit of being fully backwards compatible with standard analogue cameras. HD and analogue cameras can both be installed on the same system.

Common features on all DVRs:

- Full HD recording resolution
- Multiplex operation: live, recording, network and mobile phone surveillance simultaneously
- Up to 100 FPS recording
- Timer manual, motion detection/alarm recording
- P2P easy connection with QR code setup
- USB support for footage backup
- Email notification
- PTZ control (Pelco-D Pelco-P)
- Picture in picture
- Digital zoom
- Network ready
- CMS multi site software included
- Android/iPhone mobile surveillance ready
- HDMI and VGA monitor support
- Audio input/output
- Dual stream capability
- DDNS domain service compatible
- Privacy master function
- Up to 9 online users simultaneously (adjustable)
- Auto sync time using NTP server
- Intelligent event/time video search
- Up to 4 x HDD connectivity (max 16 TB, supplied separately)

Download on the App Store

GET IT ON Google Play



4 Channel DVR

VKDVR2MP/4

- 1080N AHD (+720P, D1, CIF)
- 4 x Video inputs (BNC)
- 4 x Audio inputs (RCA)
- 1 x Audio Output (RCA

HDMI Socket

VGA socket for connection to a PC monitor

DVR Dimensions (mm):
274 (w) x 45 (h) x 215 (d)

8 Channel DVR

VKDVR2MP/8

- 1080P AHD (+720P, D1, CIF)
- 2 Megapixel resolution
- 8 x Video inputs (BNC)
- 4 x Audio inputs (RCA)
- 1 x Audio Output (RCA

HDMI Socket

VGA socket for connection to a PC monitor

DVR Dimensions (mm):
110 (w) x 255 (h) x 115 (d)

16 Channel DVR

VKDVR2MP/16

- 1080P AHD (+720P, D1, CIF)
- 2 Megapixel resolution
- 16 x Video inputs (BNC)
- 4 x Audio inputs (RCA)
- 1 x Audio Output (RCA

HDMI Socket

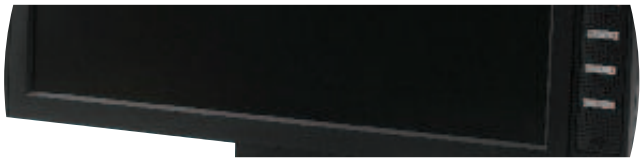
VGA socket for connection to a PC monitor

DVR Dimensions (mm):
360 (w) x 250 (h) x 66 (d)

Surveillance Hard Disk Drives

- Built for 24/7 HD surveillance use
- SATA interface
- 6 GB/s
- 3.5 inch
- 64MB cache
- Helps to reduce errors, pixellation and video interruptions

VK2TBWD - 2TB HDD
VK4TBWD - 4TB HDD



19.5" LED 1080P Monitor

VKMHD195

- 19.5" LED 1080P
- 1920 X 1080 16:9
- HDMI, VGA, BNC
- BNC output
- Plastic Case

Monitor Dimensions (mm):
475.7 (w) x 355.63 (h)

23.6" LED 1080P Monitor

VKMHD236

- 23.6" LED 1080P
- 1920 X 1080 16:9
- HDMI, VGA, BNC
- BNC output
- Plastic Case

Monitor Dimensions (mm):
556.9 (w) x 412.25 (h)

42" LED 1080P Monitor

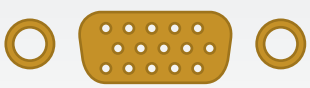
VKMHD42

- 42" LED 1080P
- 1920 X 1080 16:9
- HDMI, VGA, BNC
- BNC output
- Metal Case

Monitor Dimensions (mm):
976.6 (w) x 645.1 (h)

Socket Connections

BNC socket for connection to CCTV equipment



VGA socket for connection to a PC

RCA Socket for connection to audio equipment

HDMI input for connection to High Definition video source

4A Boxed Power Supply

PSU Dimensions (mm):
235 (h) x 185 (w)

VKPSU4

- 12V DC regulated 4A PSU
- Metal enclosure
- 4 x 1A outputs
- Thermal output fuses (no replacement fuses needed)
- Supplied with 4 x 2.1mm DC plugs (VKDCTB)

9A Boxed Power Supply

PSU Dimensions (mm):
210 (h) x 280 (w) x 90 (d)

VKPSU9

- 12V DC regulated 9A PSU
- Metal enclosure
- 9 x 1A outputs
- Thermal output fuses (no replacement fuses needed)
- Supplied with 9 x 2.1mm DC plugs (VKDCTB)

16A Boxed Power Supply

PSU Dimensions (mm):
210 (h) x 280 (w) x 90 (d)

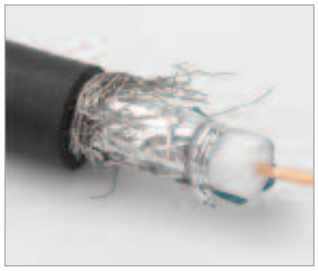
VKPSU16

- 12V DC regulated 16A PSU
- Lockable metal enclosure
- 16 x 1A outputs
- Thermal output fuses (no replacement fuses needed)
- Supplied with 16 x 2.1mm DC plugs (VKDCTB)
- LED indication

Crimp on BNC Connector

VKBCT

- Crimp on BNC connector
- 75Ω
- For use with RG59 coax
- Also available screw type VKBST in-line connector VKDEF 'T' piece (VKBNCTP)



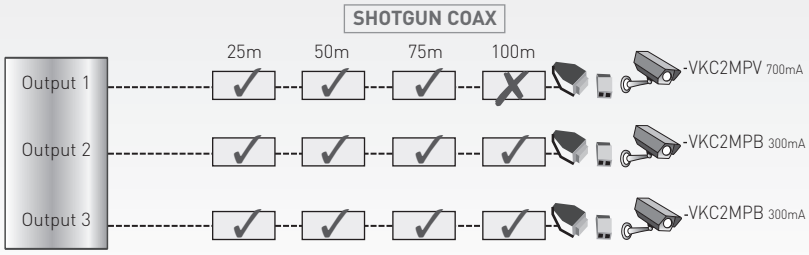
BNC Crimp Tool

VKRCP

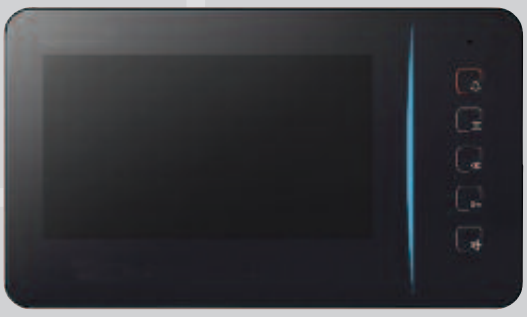
- BNC crimp tool
- For use with VKBCT connectors
- Use on 12G59 coax

Central Power Supplies

- Use with shotgun cable
- Maximum cable distance 100m
- Possible volt drop over long distances



DOOR ENTRY & ACCESS



Fortessa is leading the way for access control through innovation and intelligent system design.

Wireless and network compatible products compliment our extremely reliable modular ranges of digital two wire entry systems, each reassuringly backed up with a 3 year warranty.

When reliable control of access is required, choose Fortessa.

FORTESSA

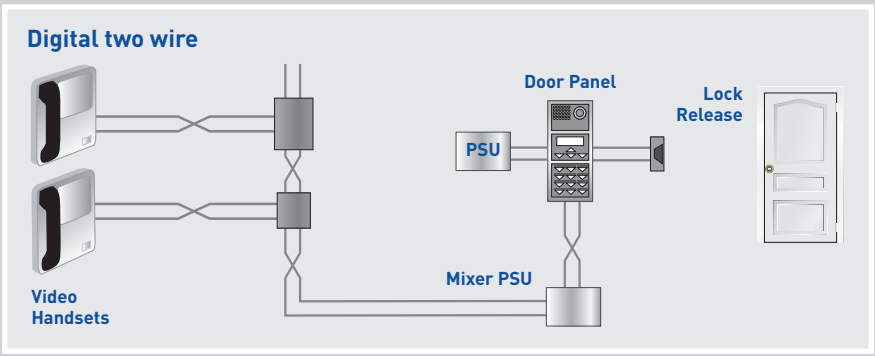
CONTROLLED ACCESS BY DESIGN

Door Entry/Access

Technology used for easy installation

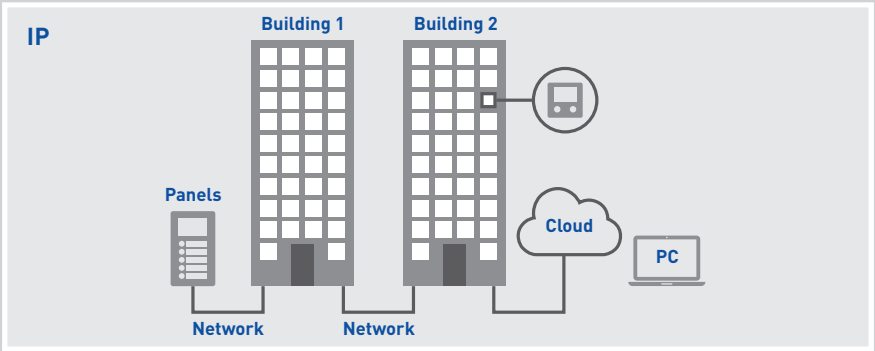
2 Wire

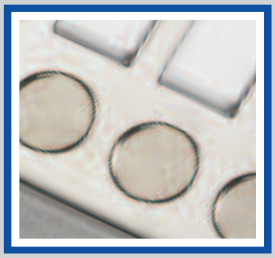
Two wire systems offer vast savings in time, cable, termination and fault finding often resulting in a more cost effective solution with an easier install on a system with greater flexibility.

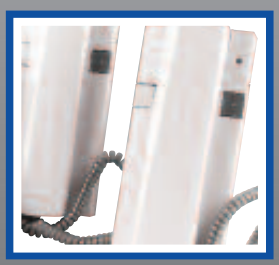


IP

The ultimate in flexibility, IP systems utilise existing network infrastructure enabling systems to operate over huge distances.





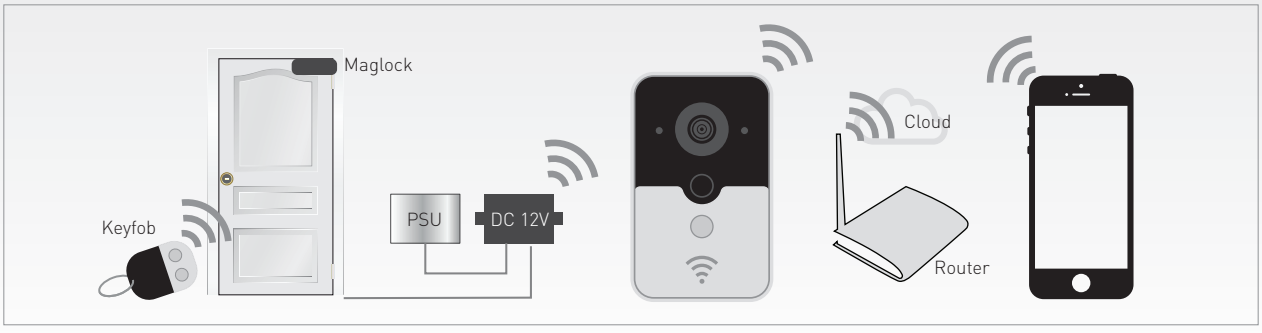


Use your SmartPhone to answer the door and allow access.

FTDEV/WIFI
- WIFI door entry kit
- Wireless relay for connecting to lock release
- Wireless keyfob for property owner entry
- Answer door from anywhere in the world
- Choose whether to allow access
- Record footage from the door entry panel on your smartphone

FTDEVWIFI/S
- Optional Sounder

Broadband connection and WIFI router required.



- Two core non polarity cabling
- Full colour apartment station
- Slimline external door panels
- Additional monitors available with intercom facility

1 Way Colour Video

FTDEV1

- IP64 video door panel: Dimensions - 179 x 90 x 23mm
- 2 timer relays
- Slim 3.9" colour monitor
- Touch screen technology

1 Way Colour Video with Access Keypad

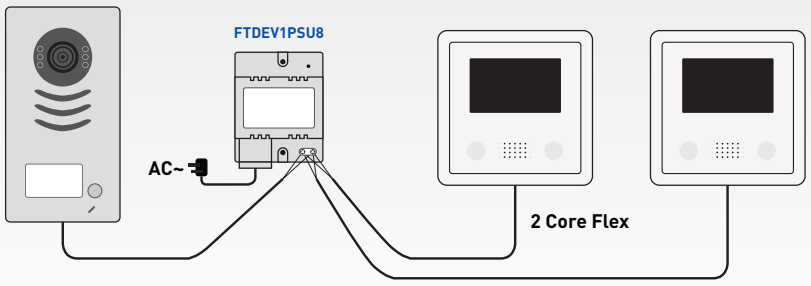
FTDEVK1

- IP64 video door panel: Dimensions - 179 x 90 x 23mm
- 2 timer relays
- Slim 3.9" colour monitor
- Touch screen technology

Proximity version available - FTDEVP1

Additional Monitors

Use additional PSU (FTDEV1PSU8) for up to 8 monitors.
Ideal for intercommunication



1-20,000 Apartment Door Entry

- 2 Wire or IP based systems
- Any configuration available including functional buttons, keypad, name directory or proximity.

Stainless steel panel options including sensitive touch technology

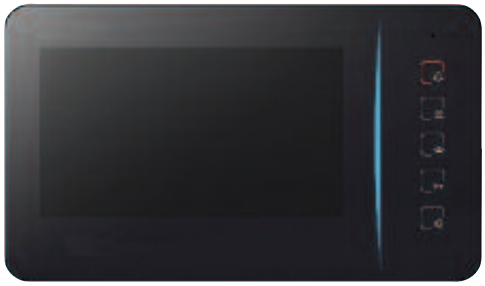
Modular panel options

Attractive monitor options

Please contact our quotations office for an individual system quote
Tel: 01253 791888 Fax: 01253 791887 Email: enquiries@challenger.co.uk

1-12 Apartment Door Entry

- 1-12 way apartments
- CAT5 cabling to monitors
- Attractive monitor apartment stations
- Full colour
- Surface or flush panels



1-12 way. Easy 3 step ordering

Step 1 - Select kit size

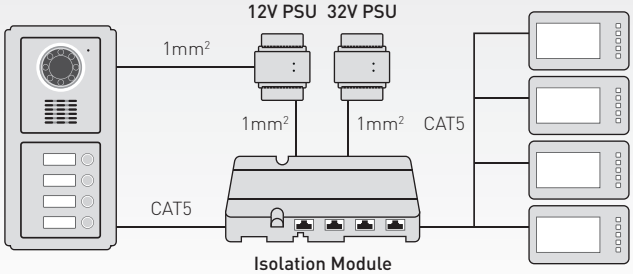
1-4 way = FTDEV1-4 5-8 way = FTDEV5-8 9-12 way = FTDEV9-12

1-4 Way Video

FTDEV1-4

- 1-4 way panel and accessories
- Flush panel
- Isolation module for up to 4 monitors
- System PSUs

System Wiring



5-8 Way Video

FTDEV5-8

- 5-8 way panels and accessories
- Flush panels
- 2 x Isolation modules for up to 8 monitors
- System PSUs

Panel Dimensions (mm):
214 (h) x 104 (w) x 50 (d)

9-12 Way Video

FTDEV9-12

- 9-12 way panels and accessories
- Flush panels
- 3 x Isolation modules for up to 12 monitors
- System PSUs

Panel Dimensions (mm):
214 (h) x 104 (w) x 50 (d)

Step 2 - Add handsets/monitors

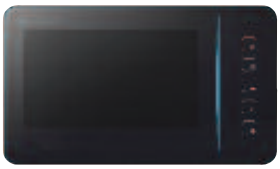
7" colour monitor = FTDEVM7
4" colour monitor = FTDEVM4
Audio only = FTDEAH

Step 3 - Add panel surface box
(if required)

1-4 way = 1 x FTDESB
5-12 way = 2 x FTDESB
(Systems supplied flush as standard)

Please remember to order your door release/maglock separately

FTDEVM7
7" Colour LCD Monitor



FTDEVM4
4" Colour LCD Monitor

FTDEAH
Audio only Handset

FTDESB
Surface box for panel

Examples

5 way colour video surface:

1 x FTDEV5-8, 5 x FTDEVM7, 2 x FTDESB

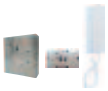
5 way colour video flush:

1 x FTDEV5-8, 5 x FTDEVM7

- 1-6 Apartments
- Aluminium panel
- PSU with built in timer relay
- Compatible with failsafe/fail secure lock releases/maglock

Each kit includes

- Surface mount panel
- 12V dc power supply c/w timer relay
- Audio handset(s)

FTAD1 1 Way Audio Entry Kit 

FTAD2 2 Way Audio Entry Kit

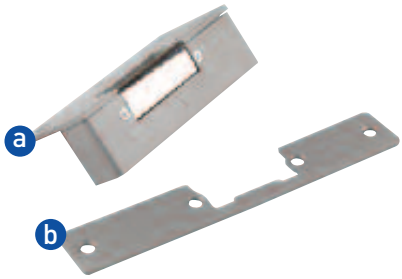
FTAD3 3 Way Audio Entry Kit

FTAD4 4 Way Audio Entry Kit

FTAD5 5 Way Audio Entry Kit

FTAD6 6 Way Audio Entry Kit

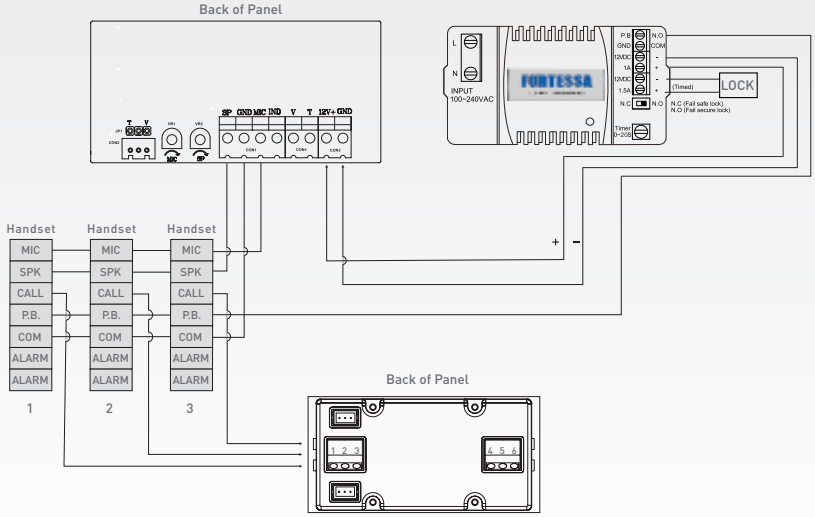
Universal Lock Release



DLU1

- Universal lock release
- Flush and surface plates supplied
- 12V AC/DC
- Fail secure
- 350ma

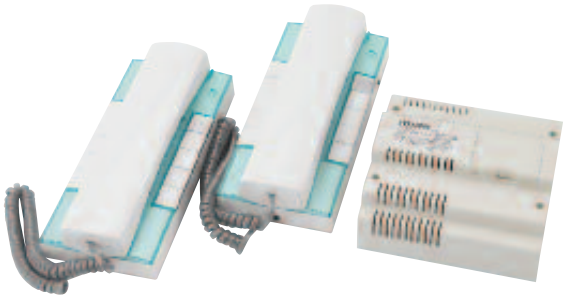
Lock Dimensions (mm):
a: 116 (w) x 31 (h) x 50 (d)
b: 160 (w) x 25 (h)



2-9 Way Handset Intercoms

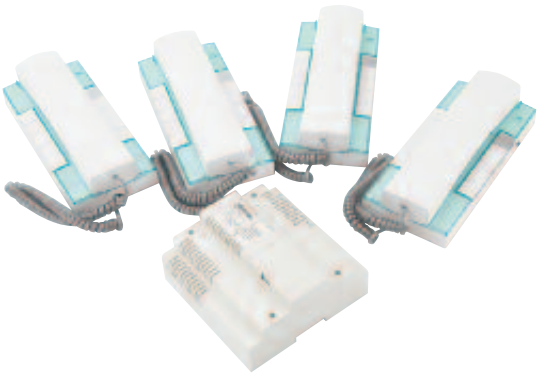
- Handset to handset intercoms
- 2-9 way
- Residential or light commercial use
- Mute of ring facility

2 way Intercom: FTIN2



3 way Intercom: FTIN3

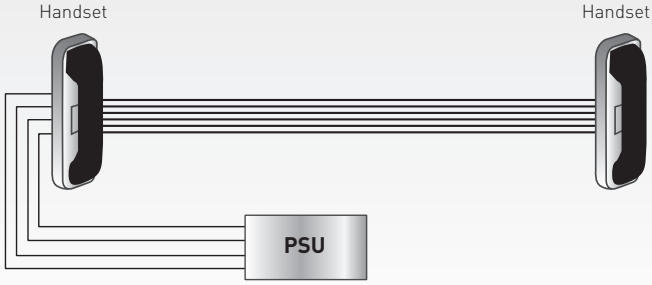
4 way Intercom: FTIN4



5 way Intercom: FTIN5

6 way Intercom: FTIN6

7 way Intercom: FTIN7



- Use BT or CAT5 cable.
- Up to 3 way - 6 cores required

- 4 way - 7 cores
- 5 way - 8 cores
- 6 way - 9 cores
- 7 way - 10 cores
- 8 way - 11 cores
- 9 way - 12 cores

Surface Mount Keypad

FTK1

- Surface mount vandal keypad
- LED backlit buttons
- IP65
- 99 PIN codes
- 12/24V AC/DC
- Fitted with 18" cable loom

Reverse of Unit

Keypad Dimensions (mm):
76 (w) x 110 (h) x 18 (d)

Vandal Resistant Slimline Keypad

FTK2

- Slimline vandal keypad
- LED backlit buttons
- IP65
- 2 programmable relay outputs
- 12/24V AC/DC
- Fitted with 18" cable loom

Illuminated Keypad

Keypad Dimensions (mm):
44 (w) x 154 (h) x 23 (d)

Surface Mount Vandal Keypad

FTK3

- Surface vandal keypad
- Stainless steel LED backlit buttons
- IP65
- 2 programmable relay outputs
- 12/24V AC/DC

Reverse of Unit

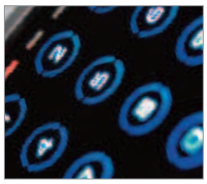
Keypad Dimensions (mm):
80 (w) x 110 (h) x 35.5 (d)

Surface Touch Sensitive Keypad

FTK4

- Surface touch sensitive keypad
- IP65
- 2 programmable relay outputs
- 12/24V AC/DC

Touch Sensitive



Keypad Dimensions (mm):
80 (w) x 120 (h) x 35.5 (d)

Proximity Reader Keypad

FTK5

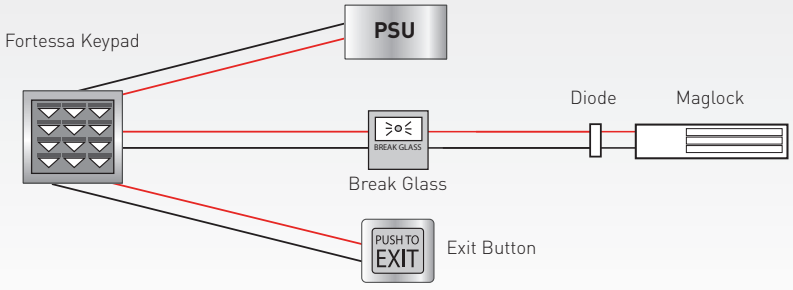
- Surface keypad with proximity
- Uses standard keycards
- LED backlit
- 12/24V
- Stand alone

Keycards included

Keypad Dimensions (mm):
80 (w) x 110 (h) x 35.5 (d)

Typical Keypad Installation

- Remember to include method of exit when using keypads
- Emergency break glass points are often a requirement of the fire officer



Stand Alone Proximity

- 'Stand alone' proximity
- Single door use
- PSU, lock release & fob sold separately
- No PC required
- Ideal for residential or light commercial use

Panel Mount Reader & Controller

FTBC2P

- UK standard door entry panel mount reader (40mm spacing)
- Up to 99 users (fobs)
- Easy programming
- 2 relay outputs

Reader Dimensions (mm):
59 (h) x 75 (w) x 23 (d)

Switch Plate Reader & Controller

FTBC2S

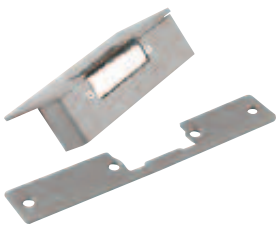
- Single gang back box size reader
- Indoor/outdoor use
- Up to 99 users
- 2 relay outputs
- Surface mount adaptor supplied

Reader Dimensions (mm):
90 (h) x 90 (w) x 25 (d)

ACCESSORIES

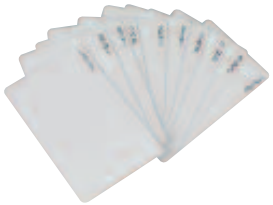
12V DC 1A Boxed PSU
FTPSU1

12V DC Failsafe Lock Release
DLFS

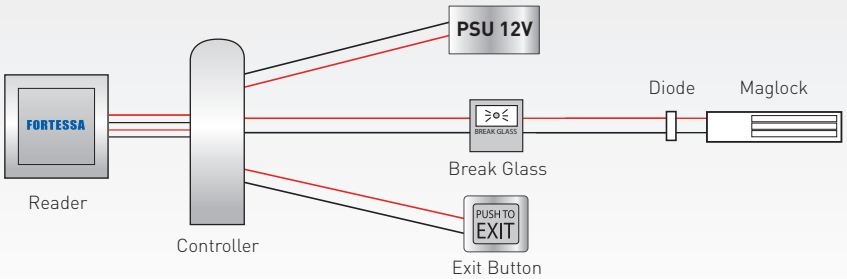


Proximity Fob Pack (10)
FTBFOB10

Cards
FTBCARD10



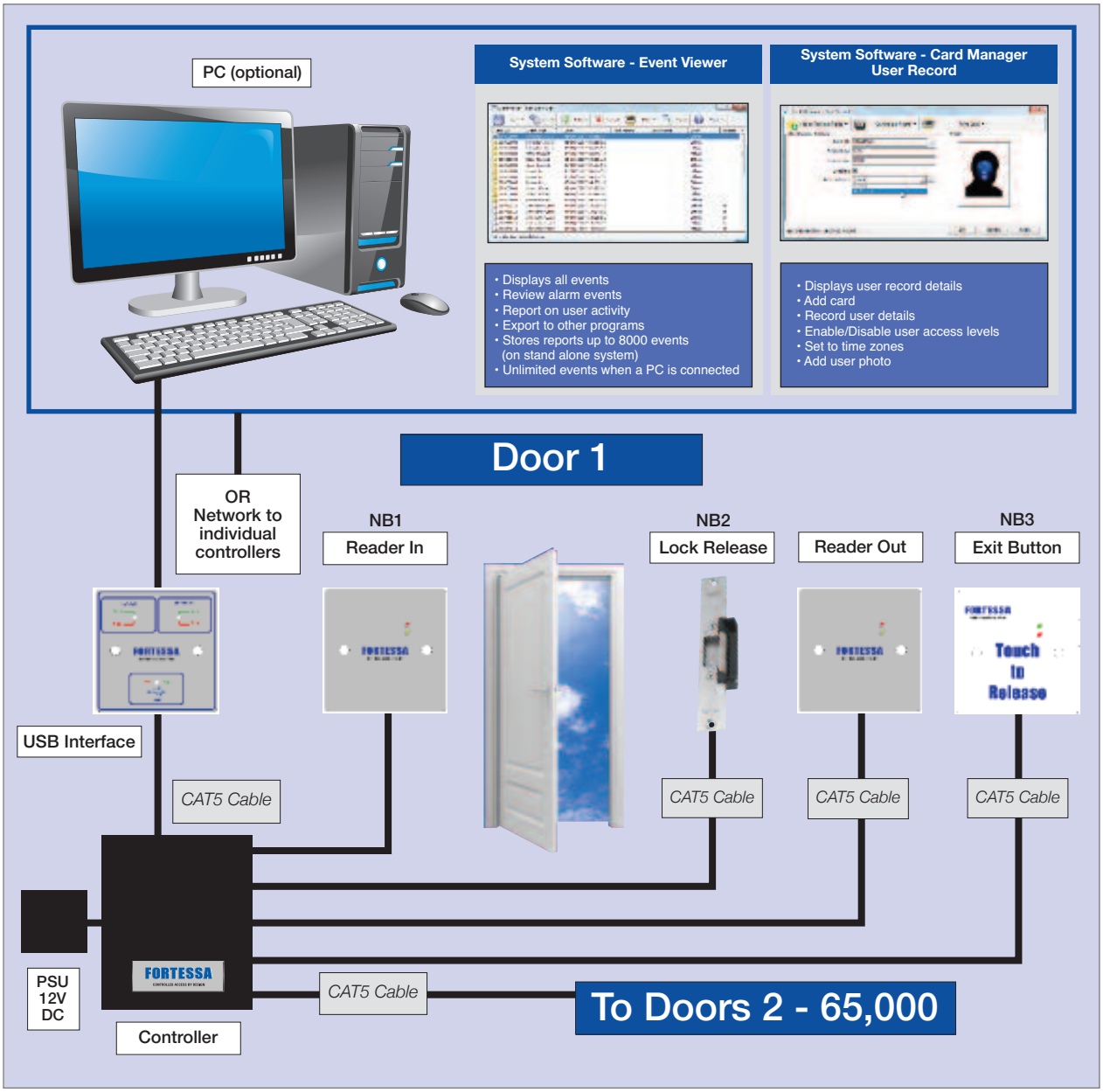
Sticky dots also available (FTBDOT10)



- Controller should be mounted close to reader
- Controller can be used as keypad for access
- 100 fobs/cards can be programmed and individually removed

- Stand alone or online functionality
- PC can configure system, manage fobs and view events as they happen
- Up to 32,000 card capacity
- Up to 8,000 event log
- Expansion modules including GPRS connectivity available
- Up to 65,000 doors
- Biometric reader, access keypad and RF proximity readers all available

System Connectivity



NB1 - Readers can be proximity, keypad or biometric finger print.

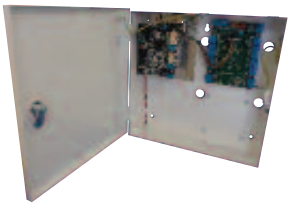
NB2 - Any type of lock/release can be used - ask for details.

NB3 - Readers can be used for entry and exit, entry only or exit only. Exit button not required if exit readers used.

* If fail safe release is to be used, please call our quotations office as additional equipment will be required.

Please contact our quotations office to discuss your exact system requirements
Tel: 01253 791888 Fax: 01253 791887 Email: enquiries@challenger.co.uk

Standard Door Controller

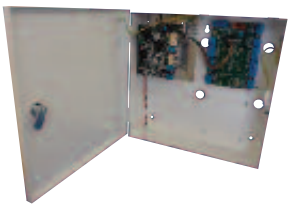


FTBCTRLC

- Single door controller
- In/out reader inputs
- 1-99 second lock release timer
- Built in PSU and programming keypad
- Fire, intruder, tamper & auxillary inputs
- Stand alone discover mode
- 8,000 event log

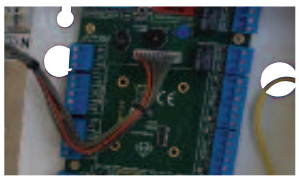
Controller Dimensions (mm):
308 (w) x 320 (h) x 78 (d)

Network Door Controller



FTBCTRLNC

- Single door controller
- Network connectivity
- In/out reader inputs
- 1-99 second lock release timer
- Built in PSU and programming keypad
- Fire, intruder, tamper & auxillary inputs
- 8,000 event log



Controller Dimensions (mm):
308 (w) x 320 (h) x 78 (d)

Proximity Reader

FTBREAD

- Proximity reader standard
- Max cable distance 100m
- Use with FTBCTRLC & FTBCTRLNC
- 30ma

Reader Dimensions (mm):
90 (w) x 90 (h) x 25 (d)

Proximity Reader Panel Mount

FTBREAD/P

- Proximity reader panel mount
- Suitable for use in Fortessa door entry panels
- Use with FTBCTRLC & FTBCTRLNC
- 30ma

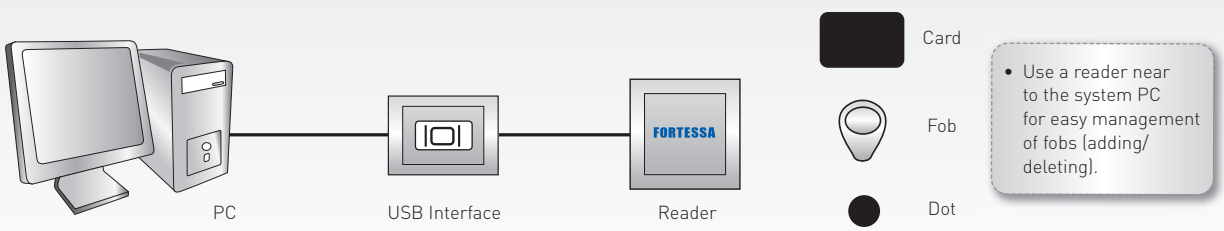
Reader Dimensions (mm):
75 (w) x 60 (h) x 20 (d)

Proximity Reader Slimline

FTBREAD/S

- Proximity reader slimline
- Ideal for mounting on door cases
- Use with FTBCTRLC & FTBCTRLNC
- 30ma

Reader Dimensions (mm):
50 (w) x 100 (h) x 18 (d)



Proximity Reader Plus Keypad

FTBREAD/K

- Proximity reader c/w access keypad
- Maximum cable distance: 100m
- Use with FTBCTRL1 & FTBCTRL1N

Dimensions (mm):
99 (w) x 118 (h) x 21 (d)

USB Interface

FTBUSB1

- USB interface
- Use on systems with FTBCTRL1 controllers
- Connects to on site PC

Dimensions (mm):
90 (w) x 90 (h) x 24 (d)

Biometric Fingerprint Reader

FTBREAD/F

- Finger print recognition reader
- RFID proximity built in
- Intelligent pulse oximetry
- Anti-spoofing
- 4 stage authentication
- 2,000 fingerprint template storage

Proximity Cards (pack of 10)

FTBCARD10

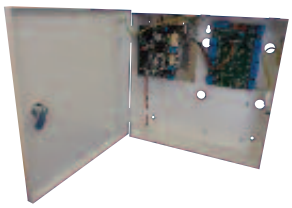
- Proximity Cards (pack of 10)
- Credit card size
- Individually serial numbered

Proximity Fob (pack of 10)

FTBFOB10

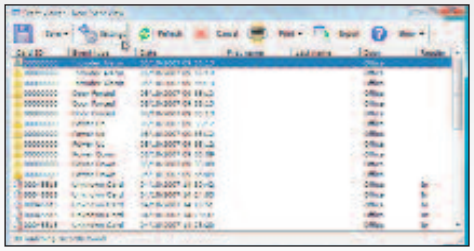
- Proximity fob (pack of 10)
- Add to existing keyring
- Individually serial numbered

Biometric Door Controller



FTBCTRL/F

- 2,000 fingerprint template storage
- Required when using FTBREAD/F
- Single door controller
- Network connectivity
- In/out reader inputs
- 1-99 second lock release timer
- Built in PSU and programming keypad
- Fire, intruder, tamper & auxillary inputs
- 8,000 event log



Locking Devices

Main two devices for releasing doors:

- Lock Release
- Magnetic Lock

Lock Release

- Can be 12 or 24 volt and AC or DC, surface or flush
- Can also be Fail Secure or Fail Safe

Magnetic Lock

- Always Fail Safe and works on DC current (12/24v)
- Available in different sizes with different holding forces
- No need to chisel doors or frames
- Not always ideal for UPVC doors, please call to discuss individual requirements
- Additional equipment such as timer relays may be required depending on installation type

Two power options:

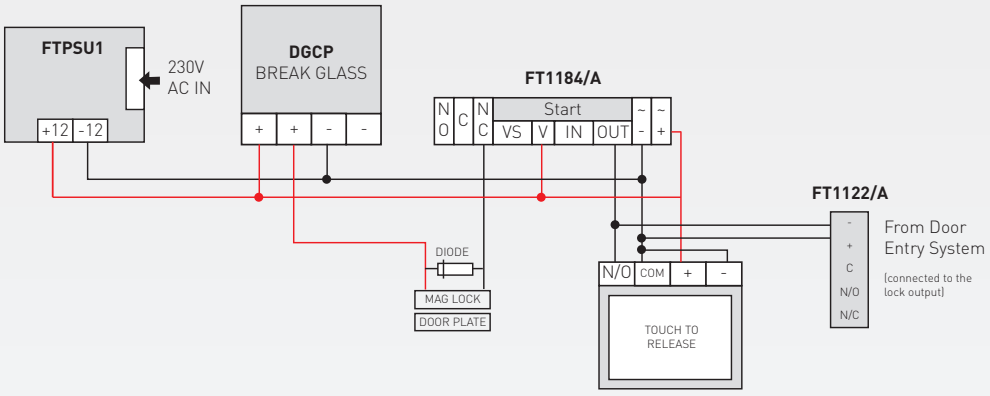
- Fail Safe

Requires constant DC power to remain locked. When power is removed the lock releases allowing exit. Consider using power supply with battery back up and always ensure means for safe exit such as exit buttons and emergency break glass devices are provided.

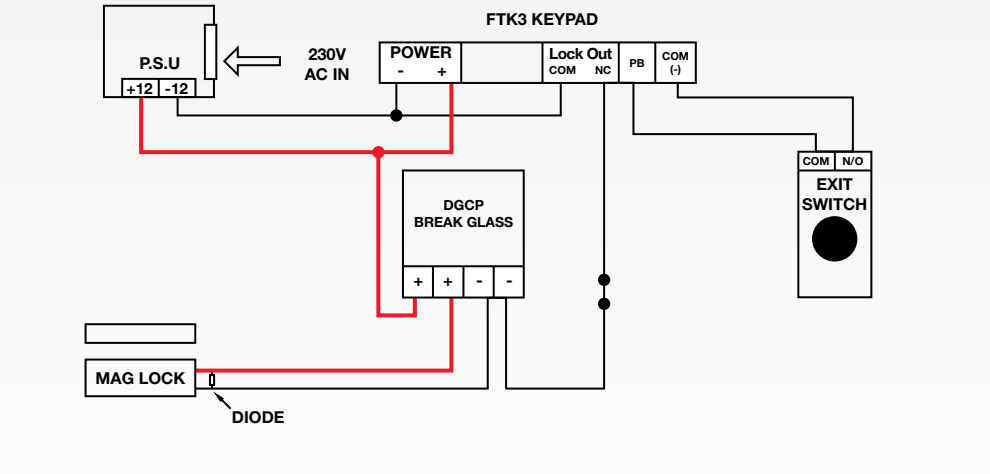
- Fail Secure

When power is applied the lock releases allowing exit. Keeps locked without power applied (AC/DC).

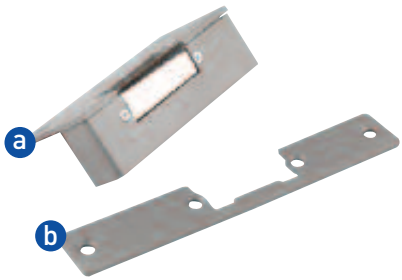
Typical diagram for magnetic lock on door entry system



Typical diagram for magnetic lock when using a keypad



Universal Lock Release

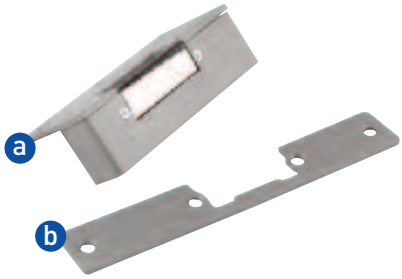


DLU1

- Universal lock release
- Flush and surface plates supplied
- 12V AC/DC
- Fail secure
- 350ma

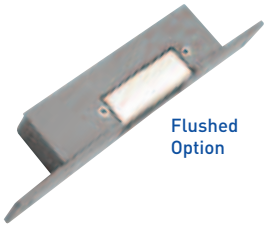
Lock Dimensions (mm):
a: 116 (w) x 31 (h) x 50 (d)
b: 160 (w) x 25 (h)

Failsafe



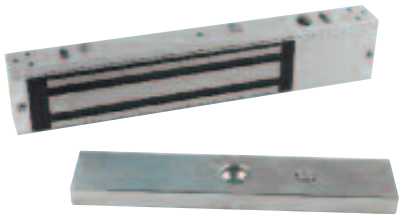
DLFS

- Failsafe
- 12V DC
- Flush and surface plates supplied
- 350ma



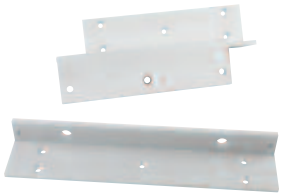
Lock Dimensions (mm):
a: 116 (w) x 31 (h) x 50 (d)
b: 160 (w) x 25 (h)

Mini Maglock



FTM250N

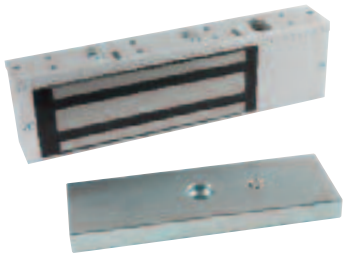
- Mini maglock
- 250kg holding force
- Internal use
- 500ma at 12V DC



FTM250BZN Z & L Bracket supplied separately

Lock Dimensions (mm):
a: 250 (w) x 47 (h) x 24 (d)

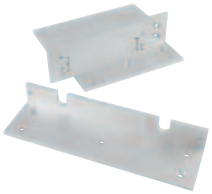
Standard Maglock



FTM500N

- Standard maglock
- 500kg holding force
- Indoor use
- 500ma at 12V DC

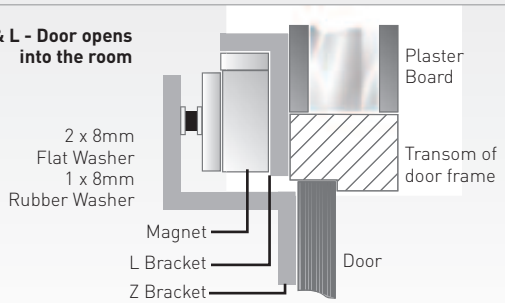
See page 78 for power supply options



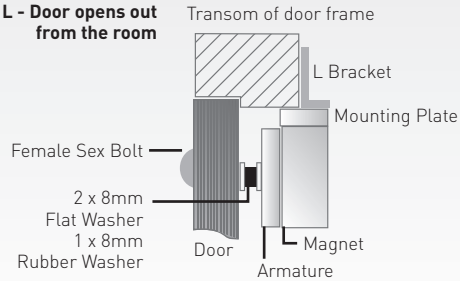
FTM500BZN Z & L Bracket supplied separately

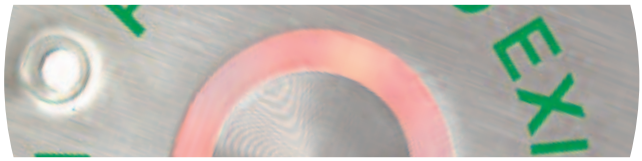
Lock Dimensions (mm):
a: 266 (w) x 73 (h) x 40 (d)

Z & L - Door opens into the room



L - Door opens out from the room





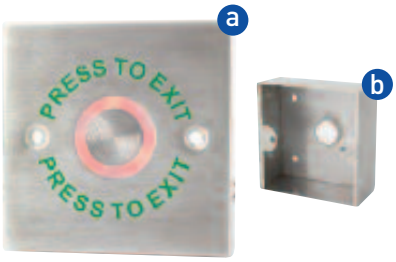
Touch Sensitive Exit Button

FTBTOUCH

- Touch sensitive exit button
- Surface/flush mount
- 1 x relay output (N/O & N/C)
- Operating voltage 12V DC

Button Dimensions (mm):
90 (h) x 90 (w) x 17 (d)

Illuminated Exit Button



FTEB1

- Illuminated exit button
- Stainless steel IP65
- Flush mount (surface box available FTSB1)
- 2 x relay outputs (N/O & N/C)
- Contact rating 2A/30V DC
- Operating voltage 12V-24V DC
- Time delay relay 1-99 seconds
- Selectable illumination status

Button Dimensions (mm):
a: 87 (h) x 87 (w) x 30 (d)
b: 87 (h) x 87 (w) x 38 (d)

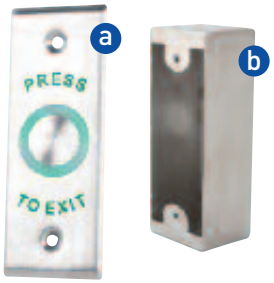
Plastic Exit Button

FTEB2

- Plastic exit button
- Flush mount
- Built in SPDT micro switch
- May require additional relay
- Single gang fix
- Operating voltage 12V-24V DC

Button Dimensions (mm):
85 (h) x 85 (w)

Slimline Exit Button

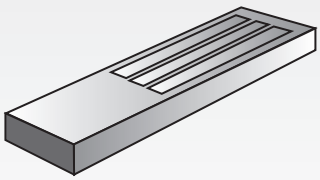


FTEB3

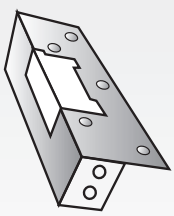
- Slimline exit button
- Selectable illumination status
- Stainless steel IP65
- Flush mount (surface box available FTSB3)
- 2 x relay outputs (N/O & N/C)
- Contact rating 2A/30V DC
- Operating voltage 12V - 24V DC
- Time delay 1-99 seconds

Button Dimensions (mm):
a: 44 (h) x 115 (w) x 32 (d)
b: 43 (h) x 112 (w) x 37 (d)

Exit Buttons



Use when supplying maglocks



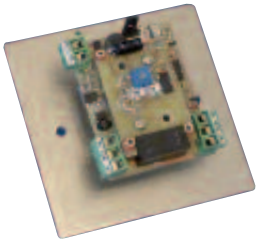
Or any Fail Safe lock release

Also consider using Break Glass points

Exit Dome

FTEDTS

- Stainless steel
- Flush version available (FTEDTF)
- 2 x relay outputs (N/O & N/C)
- Contact rating 2A/30V DC
- Operating voltage 12V-24V DC
- Timer delay relay 1-99 seconds
  Versions without timer relay available (FTEDS FTEDF)



Button Dimensions (mm):
87 (h) x 87 (w) x 38 (d)

Emergency Break Glass Point

DGCP

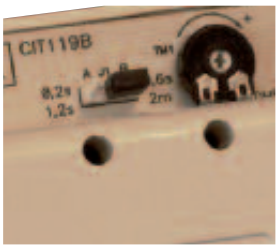
- Emergency break glass point
- Fully resettable
- Surface/flush mount
- Maximum current 50ma

Point Dimensions (mm):
85 (h) x 85 (w) x 50 (d)

Timer Relay

FT1184/A

- Single pole timer relay
- Timer adjustable from 0.2-0.6 or 1.2-120 seconds
- 12V AC/DC supply
- Din rail mounting capability
- Contact rating 1A at 240V or 20A at 12V

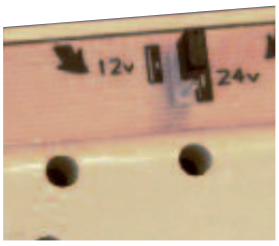


Relay Dimensions (mm):
66 (h) x 66 (w) x 83 (d)

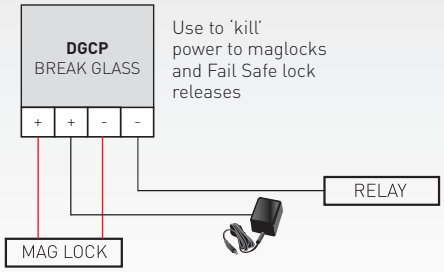
Single Pole Relay

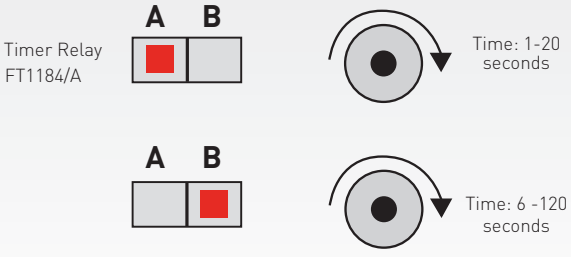
FT1122/A

- Single pole relay
- 12/24V AC/DC supply
- Din rail mounting capability
- Contact rating 10amp at 240V



Relay Dimensions (mm):
66 (h) x 66 (w) x 83 (d)





12V DC 1A Power Supply

FTPSU1

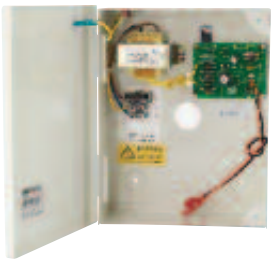
- 12V DC 1A power supply
- Metal enclosure
- Filtered and regulated
- Built in charger
- Maximum charge current 120mA
- Input/output fuse protection
- Resettable output fuse

PSU Dimensions (mm):
235 (h) x 185 (w) x 80 (d)

12V DC 2A Power Supply

FTPSU2

- 12V DC 2A power supply
- Metal enclosure
- Filtered and regulated
- Built in charger
- Maximum charge current 120mA
- Input/output fuse protection
- Resettable output fuse

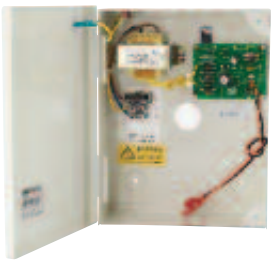


PSU Dimensions (mm):
235 (h) x 185 (w) x 80 (d)

12V DC 3A Power Supply

FTPSU3

- 12V DC 3A power supply
- Metal enclosure
- Filtered and regulated
- Built in charger
- Maximum charge current 120mA
- Input/output fuse protection
- Resettable output fuse



PSU Dimensions (mm):
235 (h) x 185 (w) x 80 (d)

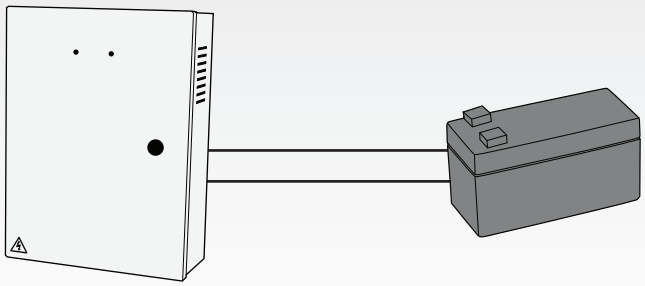
12V DC 5A Power Supply

FTPSU5

- 12V DC 5A power supply
- Lockable metal enclosure
- Filtered and regulated
- Built in charger
- Maximum charge current 200mA or 400mA
- Input/output fuse protection
- Resettable output fuse
- AC input & DC output LED indication

PSU Dimensions (mm):
280 (h) x 210 (w) x 90 (d)

Battery Backup



Max battery size
12v 7AH

ALARM ACCESSORIES - WIRED

12V 1A Boxed PSU	AAPSU1	41
12V 2A Boxed PSU	AAPSU2	41
12V 3A Boxed PSU	AAPSU3	41
12V 5A Boxed PSU	AAPSU5	41
Aluminium Roller Shutter Door Contact	AC04	36
Aluminium Surface Contact	AC03	36
Ceiling PIR 11m 360˚	AD03	35
Dual Tech PIR 12m 110°	AD33	35
Dummy External Sounder	AB1000WBX	39
Dummy External Sounder with Flashing LED	AB1000WBXB	39
Flush Contact	AC02	36
Flush Pre-Wired Contact	AC07	37
Force 10 AP10/AP11 Remote LED Keypad	AP11RKP	32
Force 10 AP11 Remote LCD Keypad	AP11RKPL	32
Heavy Duty Surface Contact	AC09	37
Internal 104db Sounder	AS04	40
Internal 111db Sounder	AS05	40
Internal 16ohm Speaker	AS14	40
LED 110db Sounder With Flashing LED	AU1000WBX	39
Metal PA Button	AA03	38
Pet PIR 12m 110°	AD32	35
PIR 12m 110°	AD04N	35
Plastic Non-Latching PA Button	AA04	38
Plastic PA Button	AA02	38
Surface Contact (Normally Closed)	AC01	36
Surface Contact (Normally Open)	AC08	37
Vibration Sensor	AA11	38

ALARM: FORCE 10 - WIRELESS GSM KIT

GSM Wireless Alarm Kit	APFWKGSM	44

ALARM: FORCE 10 - WIRELESS HYBRID

External Wireless Sounder (includes PSU)	AUW2	46
Wireless Contact	ACFW1	46
Wireless Control Fob	AUWFOB	45
Wireless Hybrid Panel	APFWP	45
Wireless PIR	ADFW1	46
Wireless Alarm Kit	APFWKH2	43

ALARM: FORCE 10 PANELS & KITS - WIRED

10 Zone Panel c/w LCD Keypad	AP11LCD	30
10 Zone Panel c/w LCD Keypad Kit	APF11KITRL	32
10 Zone Panel c/w LED Keypad	AP11LED	30
10 Zone Panel c/w LED Keypad Kit	APF11KITR	32
10 Zone Panel c/w onboard Keypad	AP10LED	30
10 Zone Panel c/w onboard Keypad Kit	APF10KIT	32

ALARM: SMARTFORCE - WIRELESS

SmartForce Hub Battery Back Up	ASFHB	28
Smartforce Intruder Alarm Kit	ASFK1	24
Wireless Control Fob & Panic Button	ASFFOB	27
Wireless Controlled ES LED Lamp	ASFLED	28
Wireless Door/Window Contact	ACFP1	25
Wireless Indoor HD CCTV Camera (includes PSU)	ASFCAM1	26
Wireless Internal Sounder/Strobe with Voice Prompts	ASFS1	26
Wireless PIR Sensor	ASFP1	25
Wireless Remote Keypad	ASFKP	27
Wireless RF Socket with Energy Monitoring	ASFMP	28
Wireless Smoke Detector	ASFSM	25
Wireless Solar Powered External Sounder	ASFSB	27
Wireless Water Leak Sensor	ASFW	26

BATTERIES

12V 1.2A	AA60	33
12V 12A	AA64	33
12V 17A	AA65	33
12V 2.2A	AA61	33
12V 24A	AA66	33
12V 38A	AA67	33
12V 3A	AA62	33
12V 7A	AA63	33
6V 1.2A	AA70	33
6V 12A	AA72	33
6V 4A	AA71	33

CCTV: ACCESSORIES

12V 16 AMP Boxed PSU	VKPSU16	59
12V 4Amp Boxed PSU	VKPSU4	59
12V 9AMP Boxed PSU	VKPSU9	59
BNC Crimp Tool	VKRCP	59
Crimp On BNC Connector	VKBCT	59

CCTV: HD CAMERAS

HD Bullet 2MP	VKC2MPB	54
HD Bullet Motorized Zoom /Auto Focus 2MP	VKC2MPBV	54
HD Dome 2MP	VKC2MPD	53
HD Dome Motorized Zoom/Auto Focus 2MP	VKC2MPDV	53
HD Dome Motorized Zoom/Auto Focus Anti-Vandal 2MP	VKC2MPVRD	53
HD Pan Tilt Zoom Speed Dome 2MP	VKC2MPSD	54
Joystick controller 3 Axis for Speed Dome	VKFJ	54

CCTV: HD DVRs & HARD DRIVES

16 Channel 1080P DVR 2MP (no HDD)	VKDVR2MP/16	57
2 TB Surveillance HDD	VK2TBWD	57
4 Channel 1080N DVR 1TB HDD	VKDVR2MP/4	57
4 TB Surveillance HDD	VK4TBWD	57
8 Channel 1080P DVR 2MP (no HDD)	VKDVR2MP/8	57

CCTV: HD KIT

4 Camera Kit 1080N HD	VKFK4AHD2	48

CCTV: HD MONITORS

19.5" LED 1080P HDMI	VKMHD195	58
23.6" LED 1080P HDMI	VKMHD236	58
42 " LED 1080P HDMI	VKMHD42	58

DOOR ACCESS: PC BASED PROXIMITY

Controller Software for PC	FTBSOFTS1	73
Network 1 Door Controller	FTBCTRL1N	72
Pack of 10 Proximity Cards	FTBCARD10	73
Pack of 10 Proximity Fobs	FTBFOB10	73
PC Based Panel Mount Reader	FTBREAD/P	72
PC Based Proximity Reader & Keypad	FTBREAD/K	73
PC Based Slim Line Reader	FTBREAD/S	72
PC Based Standard Reader	FTBREAD	72
Standard 1 Door Controller	FTBCTRL1	72
USB Interface for PC	FTBUSB1	73

DOOR ACCESS: STAND ALONE PROXIMITY

Pack of 10 Proximity Cards	FTBCARD10	73
Pack of 10 Proximity Fobs	FTBFOB10	73
Stand Alone Panel Mount Proximity Reader	FTBC2P	70
Stand Alone Proximity Reader	FTBC2S	70
Surface Mount Vandal Resistant Keypad & Reader	FTK5	69

DOOR ENTRY: ACCESS KEYPADS

Slim Line Surface Mount Keypad	FTK2	69
Surface Mount illuminated Touch Sensitive Keypad	FTK4	69
Surface Mount Vandal Resistant Keypad	FTK5	69
Surface Mount Vandal Resistant Keypad with terminals	FTK3	69
Surface Mount Vandal Resitant Keypad with Flying	FTK1	69

DOOR ENTRY: BOXED POWER SUPPLIES

12V 1A Boxed Power Supply	FTPSU1	78
12V 2A Boxed Power Supply	FTPSU2	78
12V 3A Boxed Power Supply	FTPSU3	78
12V 5A Boxed Power Supply	FTPSU5	78

DOOR ENTRY: EXIT DEVICES

Emergency Break Glass Call Point	DGCP	77
Flush Green Dome Exit Button	FTEDF	77
Flush Green Dome Exit Button c/w Timer relay	FTEDTF	77
Flush illuminated Exit Button	FTEB1	76
Flush Plastic Exit Button	FTEB2	76
Slimline Flush Exit Button	FTEB3	76
Surface Green Dome Exit Button c/w Timer relay	FTEDTS	77
Surface Green Some Exit Button	FTEDS	77
Touch Sensitive Exit Button	FTBTOUCH	76

DOOR ENTRY: HANDSETS & MONITORS

4" Colour LCD Door Entry Monitor	FTDEVM4	66
7" Colour LCD Door Entry Monitor	FTDEVM7	66
Audio Handset	FTDEAH	66

DOOR ENTRY KITS

1 Way Audio	FTAD1	67
1 Way Colour Video	FTDEV1	63
1 Way Colour Video WIFI	FTDEV1/WIFI	62
1 Way Colour Video with Access Keypad	FTDEVK1	63
1-4 Way Colour Video panel & PSU	FTDEV1-4	65
2 Way Audio	FTAD2	67
3 Way Audio	FTAD3	67
4 Way Audio	FTAD4	67
5 Way Audio	FTAD5	67
5-8 Way Colour Video Panel & PSU	FTDEV5-8	65
6 Way Audio	FTAD6	67
9-12 Way colour Video Panel & PSU	FTDEV9-12	65
Surface Box (for FTDEV1-4/5-8/9-12 kits)	FTDESB	66

DOOR ENTRY LOCKS & RELEASES

Failsafe Lock Release	DLFS	75
Mini Maglock 250KG Holding Force Monitored	FTM250N	75
Standard Maglock 500KG Holding Force Monitored	FTM500N	75
Universal Failsecure Lock Release	DLU1	75
Z&L Bracket for mini maglock	FTM250BZN	75
Z&L Bracket for standard maglock	FTM500BZN	75

INTERCOM KITS

2 Way Intercom Kit	FTIN2	68
3 Way Intercom Kit	FTIN3	68
4 Way Intercom Kit	FTIN4	68
5 Way Intercom Kit	FTIN5	68
6 Way Intercom Kit	FTIN6	68
7 Way Intercom Kit	FTIN7	68

SECURITY LIGHTING: BULKHEADS

LED Photocell Bulkhead	SL12LED	15
LED PIR Bulkhead	SL11LED	15
LED Slimline PIR Bulkhead	SL20	16
PIR Bulkhead	SL11	15

SECURITY LIGHTING: FLOODLIGHTS w/ PIR

6w LED PIR Solar Powered Twinflood	SL24LEDS	18
8w LED PIR Twinflood	SL24LED	18
HD WIFI Camera & PIR LED Floodlight 30W	SLFLEDWIFI	8
Polycarbonate LED 13w PIR Floodlight (Black)	SLRF13B	10
Polycarbonate LED 13w PIR Floodlight (White)	SLRF13W	10
Polycarbonate LED 26w PIR Floodlight (Black)	SLRF26B	10
Polycarbonate LED 26w PIR Floodlight (White)	SLRF26W	10
Slim line LED 10w PIR Floodlight	SLS10P	19
Slim line LED 15w PIR Floodlight	SLFLF15P	6
Slim line LED 30w PIR Floodlight	SLFLF30P	6
Slim line LED 50w PIR Floodlight	SLFLF50P	6

SECURITY LIGHTING: FLOODLIGHTS w/o PIR

Polycarbonate LED 26w Floodlight (Black)	SLRF26SB	10
Polycarbonate LED 26w Floodlight (White)	SLRF26SW	10
Slim Line LED 100w Floodlight	SLFLF100	6
Slim Line LED 10w Floodlight	SLS10	19
Slim Line LED 150w Floodlight	SLFLF150	6
Slim Line LED 15w Floodlight	SLFLF15	6
Slim Line LED 30w Floodlight	SLFLF30	6
Slim Line LED 50w Floodlight	SLFLF50	6
Slim Line LED 80w Floodlight	SLFLF80	6

SECURITY LIGHTING: PIRs

110˚ Wall/Ceiling PIR (Black)	SL01B	20
110˚ Wall/Ceiling PIR (White)	SL01	20
180˚ Wall/Ceiling PIR (Black)	SL02B	20
180˚ Wall/Ceiling PIR (Black)	SL180BN	21
180˚ Wall/Ceiling PIR (White)	SL02	20
180˚ Wall/Ceiling PIR (White)	SL180N	21

SECURITY LIGHTING: PIRs

210˚ Wall/Ceiling PIR (Black)	SL04B	21
270˚ Wall/Ceiling PIR (Black)	SL03B	20
270˚ Wall/Ceiling PIR (White)	SL03	20

SECURITY LIGHTING: WELCOME LIGHTING

Battery Powered LED PIR Coach Lantern	SL40	16
LED Black PIR Lantern	SLRL1B	14
LED Grey PIR Floor Mount Path Light	SLRL6F	14
LED Grey PIR Welcome Light	SLRL6P	14
LED Grey Welcome Light	SLRL6	14
LED Half Lantern	SL30S	17
LED PIR Half Lantern	SL30	17
LED Stainless Steel Down Welcome Light	SLRF5	14
LED Stainless Steel Floor Mount Path Light	SLRL7F	14
LED Stainless Steel PIR Floor Lantern 450mm	SLR2F450	14
LED Stainless Steel PIR Floor Lantern 850mm	SLRL2F	14
LED Stainless Steel PIR Halo Lantern	SLRL2	14
LED Stainless Steel PIR Lantern	SLRL1	14
LED Stainless Steel Up/Down Welcome Light	SLRL4	14
LED Stainless Steel Welcome Light	SLRL3	14
LED Stainless Steel Welcome Light Square Diffuser	SLRL7	14

FACINA
SURVEILLANCE

FORTESSA
CONTROLLED ACCESS BY DESIGN

Survey Forms

The following two forms have been designed to help assess and evaluate any site you are asked to provide a quote for.

Information gathered allows Challenger to provide a more accurate estimate for equipment required to fulfil your customers' requirements.

Should you have any problems completing the forms, please do not hesitate to contact the team on **01253 791 888**

FACINA
SURVEILLANCE

CCTV Site Survey Form

Installer .....Contact.....Tel/Mobile .....

Job Ref. .....

Camera Information

O **Observation** 0.25 pixels per cm (60m maximum width view)	**R** **Recognition** 1.25 pixels per cm (15m maximum width view)	**ID** **Identification** 5 pixels per cm (3.5m maximum width view)

Camera number	Location	Indoors or Outdoors	Is Infra Red Lighting required?	Camera type preference	Observation, recognition or ID view?	Width of area viewed (mtrs)	Distance to object viewed (mtrs)	Cable run to control room (mtrs)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

If a standard fixed camera is not suitable, or non standard camera mounting is required, please indicate requirements below.

Control Room Information

Monitor size:	19.5"	23.6"	42"			
Hours per day recording?						
How long are recordings to be kept?	1 day	3 days	1 week	2 weeks	1 month	Other
Joystick Controller (for PTZ cameras only)						
Central Management software required?						
Other specific requirements:						
Survey form completed by:		Date:				

Further Information

Please complete and return to Challenger Security via Fax: 01253 791887 or email enquiries.challenger@adivision.co.uk

FORTESSA
CONTROLLED ACCESS BY DESIGN

Door Entry System Survey Sheet

Installer .....Contact.....Tel/Mobile .....

Job Ref. .....

Please complete all questions that are relevant to your system.

System Type

No. of (handsets) ways

Number of Standard Panels

Audio Surface

Audio Flush

Colour Video Surface

Colour Video Flush

Number of Vandal Resistant Panels

Audio Surface

Audio Flush

Colour Video Surface

Colour Video Flush

Additional Requirements

Coded Access (keypad)

Handset Mute

Proximity

Number of Readers

Stand Alone or
PC Based

Trades Facility

Intercommunication Handset

Number of fobs cards

Releasing the Door/Gate

Number of door/gates		inwards/outwards /swing
Wooden doors		
Metal doors		
All glass doors		
UPVC doors		
Double doors		
Automated gates		
Non automated gates		

Number of releases

Standard Lock Release

Maglock

Other

Power requirements

(lock release only)

Fail Secure

Fail Safe

Extra Information

Existing cables (if any)

Longest cable run
(Panel to furthest handset)

Cable requirements

Further Information

For any assistance completing this form please call 01253 791888.

Please complete and return to Challenger Security via Fax: 01253 791887 or email enquiries.challenger@adivision.co.uk

CHALLENGER

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Edition 7:

Security Product Portfolio

2016/2017

Challenger Security Products

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Fax: 01253 791887

Email: enquiries@challenger.co.uk **Web:** www.challenger.co.uk

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