



FIRE & SECURITY

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PRODUCT GUIDE



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Who we are

CQR Fire and Security is a member of the OSL Group of companies. The OSL Group is a manufacturing group with locations throughout the UK. OSL are committed to excellence delivering top quality products and solutions, at the best price, on time. We invest extensively in our systems and people to achieve this. Our development and growth strategy is aimed at becoming the leader in all our markets, which will further enable us to meet our customer's most stringent demands. Established in 1978, CQR Fire & Security has been at the forefront of the Fire and Security Industry for over 30 years. We are a 100% owned U.K. business operating from the Wirral, North West England.

What we offer

We design and manufacture a comprehensive range of devices for the detection of unlawful entry to buildings. These include first line detection products to protect against forced entry through doors and windows, audible and visual devices to signal a forced entry and devices to indicate duress or hold up emergency situation. We also offer a large range of cable solutions designed specifically for the low voltage security market. In addition, we offer a comprehensive range of Fire detection systems as part of our **FireBrand** range. These systems are designed to provide the earliest possible detection of a fire within a building and to provide audible and visual warnings locally and remotely.

Route to Market

Our systems and products are designed for the protection of Domestic, Residential and Commercial property. We reach the end user via a network of professional Security Distributors both in the U.K. and overseas. Export is a large part of our business; we have a broad reach Distribution channel covering the Europe, Africa, North America and Asia Pacific and export to over 60 countries.

Quality and standards

It is CQR'S aim to provide its customers with products and services that exceed their expectations in all respect of cost, performance, safety, reliability and service. These goals are facilitated by our quality system that satisfies the requirements of ISO 9001: 2008. We commit to constant monitoring of the effectiveness of this Quality System. Agreed Quality Objectives ensure our continual improvement culture. CQR's products are designed and manufactured to meet all of the latest European and International Standards.



CQR - First Choice for Quality

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MAGNETIC CONTACTS

CQR's range of contacts are known throughout the security industry for their quality. The contacts come with selectable resistors to allow installers to stock one contact that can be used with any panel (see table below for supported panels). Many of the contacts have been independently certified to meet EN50131 grade 2 and grade 3, so you can be confident in using them.

Independently Certified



To give you total confidence many of the contacts are independently certified to EN50131.

Multi Contacts

Multi EOL resistor technology allows the installer to stock one contact but service all the major intruder systems. These include the following types A, B, D, E, I (see table below).

Graded Contacts

Grade 2 contacts are suitable for use in ungraded, grade 1 and grade 2 systems. These contacts are required to have a mechanical tamper or be potted/sealed. End of Line (EOL) resistors are an option but are not a requirement to meet grade 2.

Grade 3 contacts have all the features of grade 2 contacts and in addition must detect or be immune to external magnetic interference.

SC570

The SC570 is CQR's flagship contact. There are grade 2 and grade 3 versions available both of which can incorporate CQR's multi-resistor technology if required. White or brown versions are held in stock and a double door option is available. Non-multi versions are independently certified to EN50131.



SC570

SC517/MULTI

Smaller than most graded contacts, the SC517/MULTI is designed to look discrete in all locations. The SC517/MULTI incorporates CQR's multi-resistor technology and can also accommodate additional end of line resistors or be configured as double pole. There are grade 2 and grade 3 versions available both in white or brown.



SC517

FC508/MULTI

The FC508/MULTI is a 20mm flush contact incorporating CQR's multi-resistor technology and can also accommodate additional end of line resistors or be configured as double pole. There are grade 2 and grade 3 versions available in white or brown.



FC508

RS002/AB & RS007/AB

The RS002/AB and RS007/AB are the market leading roller shutter contacts. Ruggedly designed they incorporate CQR's multi-resistor technology. The RS002/AB will meet all your grade 2 needs, whilst the RS007/AB is specifically designed to meet the demands of grade 3, with its unique shape to help locate the magnet.



RS002/AB

Resistor Table Guide *Contacts are available as a single EOL. See table below*

Type	Resistor Guide	Switch	Tamper	Type	Resistor Guide	Switch	Tamper
A	Honeywell, Microtech (Galaxy)	1K Ohms	1K Ohms	F	Bosch, DA Abacus	8K2 Ohms	3K9 Ohms
B	Scantronic, Cooper, Pyronix PCX, Texecom, Castle-Care Tec G3+	4K7 Ohms	2K2 Ohms	G	Castle Care-Tec	13K Ohms	1K Ohms
C	Guardall (Network 1 configuration) Two wire only	8K2 Ohms	8K2 Ohms	H	Europlex, MDT	2K2 Ohms	2K2 Ohms
D	DSC	5K6 Ohms	5K6 Ohms	I	Pyronix Matrix, GE / Aritech, HKC	4K7 Ohms	4K7 Ohms
E	Gardtec	6K8 Ohms	4K7 Ohms	J	Texecom	22K Ohms	10K Ohms

Other resistor values are available

- Flush Contacts
- Surface Contacts
- Heavy Duty Contacts
- Grade 1
- Grade 2
- Grade 3



Go to www.cqr.co.uk for a full range of CQR and FIREBRAND products

CABLE

The majority of the cost of an intruder alarm system is in the installation rather than the equipment so it is vital that the highest quality cable is used to ensure system integrity. All CQR's security cable is manufactured in the UK and is renowned for its superior quality.



- 35 Years experience of alarm cable manufacturing in the United Kingdom

- Wide range of cable types; standard, screened, low smoke & fume, twisted pair and power & data

- User friendly, easy to strip & pliable in use

Professional Cable

This UK manufactured cable has cores of 7 strands of 0.182mm annealed tinned copper wire and is sheathed in Type 1 PVC. Suitable for any installation where signal integrity is paramount.

CCA Cable

A new range from CQR which has been designed, tested and manufactured in the UK for domestic applications and is suitable for shorter cable runs. This cable is based on cores made from 7 strands of 0.2mm copper clad aluminium wire and is sheathed in Type 1 PVC.

Low Smoke and Fume

The standard security cable can also be specified with a special low smoke emission PVC outer sheathing.

LSZH Cable

LSZH cable should be used where safety, performance and concern for the environment are important. LSZH cable is flexible, flame-retardant and resistant to oil and sunlight.

Power & Data

Two different conductor types are used. A pair (red/blue) is provided in 16 strands x 0.2mm for use where higher than normal current carrying capacity or lower voltage drop is required. The data cores consist of standard 7 strands of 0.2mm tinned copper wire. The data cores are aluminium foil wrap screened (with an earth drain wire) to give added protection against induced transients that may be carried via the power cores or outside influences.

Twisted Pairs

Each core consists of 24 strands of 0.2mm annealed tinned copper wire. Each pair of cores is twisted and aluminium foil wrap screened. A bare 7 strands x 0.2mm earth drain wire is included. Twisted pair cable is particular useful for installations requiring longer lengths of cabling such as access control and CCTV.

14 Strands

This is similar to the standard cable except that each core is made up of 14 strands of 0.2mm cable. This gives a Nominal conductor area of 0.44mm². (This is often used in areas where 0.5mm" wire is required).

Fire Resistant

CQR manufactures a 2 and 4 core Fire Resistant security cable. Fire resistant cable can be specified on installations that have a risk of fire spread for example multi-story buildings or hospitals.



HOLD UP DEVICES

CQR offer the market leading range of hold up devices. From our best selling manual PADP2 range, to the brand new EPA-NG PD6662:2010 and BS8243 compliant electronic panic button.

The EPA-NG Range

The EPA-NG is the most advanced PA Button available on the market today. Packed with innovative features, this electronic unit is a versatile device capable of many functions. These are available in white, stainless steel effect and brass effect Finishes.

Standard version includes:

- Single relay output
- Two button operation
- Instant operation
- LED Indicator
- Latching
- Selectable EOL settings
- Keyless reset

Plus version includes:

- 1st Activation output
- Confirmed activation output
- One or two button operation
- Timed delay operation
- LED indicator
- Latching or non latching
- Selectable EOL settings
- Keyless reset



• Single Push

• Double Push

• Electronic

• Grade 1

• Grade 3

• PD6662: 2010 and
BS8243 Compliant

Grade 3 Multi PA Range

The double push range of PA Buttons are all suitable for use in Grade 3 Installations. Inside the traditional double push design there are a selection of end-of-line resistors for the convenience of the installer.

Available in white plastic, stainless steel and brass finishes.

- Latching
- Selectable for normally open / normally closed
- Indicator to show activation
- Tampered
- Built-in resistor values
- Suitable for use in grade 2 & 3 installations
- Spare keys available



Single Push PA

- Latching
- Selectable for normally open / normally closed
- Indicator to show activation
- 5 Terminal
- Spare keys available
- Available in white plastic and stainless steel



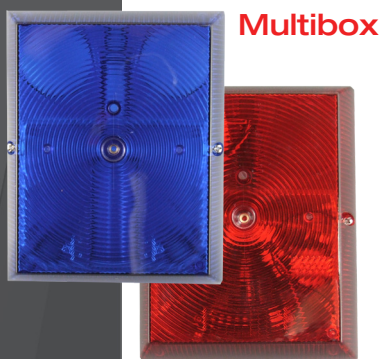
EPA-STD

The Electronic Personal Attack button is a double push, flush fitting unit with LED indication. This EPA will fit a single gang backbox.

- Key resettable
- LED indicator
- Suitable for use in grade 2 & 3 installations
- Tampered
- Spare keys available



EXTERNAL SOUNDERS



Multibox

The Multibox is available in two versions; *Standard* - single piezo, grade 2 product, *Plus* - twin piezo, grade 3 product. There are a selection of interchangeable covers available so the installer can offer their customer a choice of styles. All covers and printing, excluding chromed, are free of charge.*

The 3mm polycarbonate base unit has a 1.5mm inner cover to protect the electronics and features both front and rear tamperers. The Multibox has a sound output of 115dB(A) at 1m and utilises red and green comfort LED's

which also act as diagnostic indicators.

The grade 3 Multibox plus monitors the battery to ensure it is capable of supporting sound output and any problems will be reported back to the panel via the fault output. There is also a test input that is used in conjunction with the fault output to allow remote testing.



2 NEW covers now available



Multibox Standard

- EN50131-1:2006 + A1 grade 2
- EN50131-4:2009 type Z
- System 5
- Independently certified
- SAB
- Strobe saver
- Battery monitoring

Multibox Plus

Same as the standard with:

- EN50131-1:2006 + A1 grade 3
- EN50131-4:2009 type Z
- System 5
- Independently certified
- SAB/SCB
- 3/15 minute fail-safe timer,
- Option to change triggering method from negative to positive trigger
- Additional tamper switch on the cover screw
- Trigger wire monitoring
- 2 sound output levels (115dB(A) or 85dB(A))

- **FREE*** External Sounder covers

- **FREE** Design

- **FREE** Printing
 - Screen print **
 - Digital print

- **Range of colours**
 - inc Chrome ***

* Some Distributors may charge a nominal fee. Doesn't include chrome. ** 1 or 2 colour screen print - extra colours may incur a charge. *** Chrome lids only available in certain shapes.

INTERNAL SOUNDERS



Piccolo

This remotely powered sounder features a piezo sounder and two bright LED's for audible and visual indication. The sound output is selectable for either alternating or continuous tone. It is also protected against tampering by means of lid removal and removal from the mounting surface.

- Low profile design
- Selectable alternating or continuous tone
- Low current consumption
- **Grade 3 version available**
- 115dB sound output
- Flashing alarm indication
- Tamper protected lid and mounting



Orion

The Orion is a low profile external sounder and comes in two versions, vertical and horizontal. The backplate is made from 3mm polycarbonate and has adjustable wall mountings to allow for the movement of the fixing holes when installing. Moulded into the backplate are two knockout spacers (2mm & 4mm) for use on uneven surfaces. The cover is also made from 3mm polycarbonate and comes complete with either one or two lenses depending on the version. The special hinged flush fitting covers conceal the cover screws.

- EN50131-4:2009 type Z
- SAB/SCB option
- Vertical and horizontal options available
- Remote test input
- Enclosed electronics
- Trigger wire monitoring option
- Sound output 115dB(A)
- Fault output

Solara

The CQR Solara sounder utilises the latest generation of low power RF transceiver technology. This provides a fully supervised two-way communication with any standard control panel, allowing for true wire free installation and operation. The Solara is installer friendly and offers selectable failsafe cut-off timer, strobe saver mode and battery status indication. The onboard solar panel float charges the internal battery ready for use.

- EN50131-1:2006 + A1 grade 2
- EN50131-4:2009 type Y
- Sound output 115dB(A)

Intra

A fully functional sounder and strobe in miniature form that can be used internally or externally. The Intra contains a 6V rechargeable battery for SAB operation and a 15 minute failsafe timer.

- EN50131-1:2006 + A1 grade 2
- EN50131-4:2009 type Y
- Sound output 115dB(A)

Alto

Low profile, grade 3, independently certified sounder, speaker or combined sounder/speaker

Internal Sounder

- Low profile design
- 110dB(A) sound output
- Selectable alternating or continuous tone
- Low current consumption
- Tamper protected lid and mounting
- Independently certified
- Incert approved

- EN50131-1:2006 + A1 grade 3
- EN50131-4:2009

Internal Speaker

- Low profile design
- Tamper protected lid and mounting
- Dynamic piezo technology
- High Impedance allowing multiple speakers to be used
- Does not require any 12volt power supply

Also available as a combined speaker / sounder

Soint

SOINT 2 - Grade 3 - A sleek white low profile louvre-free housing containing a sounder, that will blend discreetly into any surrounding.

SOINT 2 HI-LO - Grade 3 - The SOINT2 HI-LO low profile housing contains a multi tone sounder, with separate inputs for exit time and alarm sound.

SOINT 1 - A sleek white low profile louvre-free housing containing just a speaker



• External Sounders

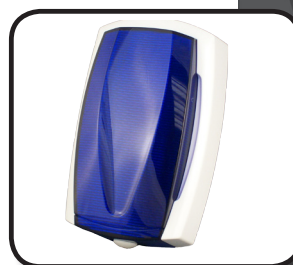
• Internal Sounders

• Sounders



• Speakers

• Horns



• Buzzers

• Piezo



DETECTION



Trapper - Intelligent Shock Sensor & Analyser

- Mass inertia shock sensor module for reliable shock detection on any surface
- Less sensitive to wind and traffic generated vibrations due to unique crow bar leverage action
- Self cleaning & highly resistant to contact degradation
- Alarm memory: up to 10 Trappers with individual annunciation
- Slave Sensors: up to 2 CQR shock sensors and/or magnetic contacts

Features:

- PIC microchip controller
- Tri-colour LED status Indication
- Sequential alarm memory for units 1 to 10
- Digital sensitivity adjustment using jumpers
- Dimensions: 21 x 25 x 92mm
- Auto learn sensitivity control
- Time window pulse count
- Slave sensor facility
- Tampered

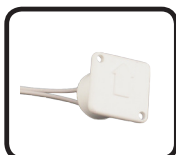


MA100T

Works in conjunction with CQR shock sensor range.

- Single zone universal shock sensor analyser
- Uses the well proven time/pulse Integration System
- Features a wide-range sensitivity control, auto-reset alarm relay & LED indicator
- Can be located within an alarm control panel or mounted externally
- Microswitch cover removal tamper
- Can be used to supervise up to 10 shock sensor modules
- Dimensions: 80 x 53 x 25 mm

Shock Sensors



SD1 - Flush mounted shock sensor

- 13mm Diameter hole required for truly unobtrusive sensor
- Dimensions: 15 x 15 x 13mm

SD2 - Small, screw terminal surface mounted shock sensor

- Dimensions: 50 x 28 x 17mm



SD3 - Surface mounted shock sensor in tampered box

- Dimensions: 50 x 28 x 17mm

SD4 - Surface mounted shock sensor with magnetic reed switch

- Magnetic reed switch connected in series to the shock sensor
- Tamper protected cover
- Dimensions: Shock Sensor – 50 x 28 x 17mm
Magnetic Case – 50 x 10 x 12mm



SWITCH MODE POWER SUPPLIES

CQR offer a range of energy efficient switch mode power supplies. Switch mode power supplies are cheaper to run, smaller and cooler than traditional linear power supplies because they do not have a large transformer. All of CQR's switch mode PSU's have additional current available to charge batteries.

Single Indicator

Features include:

- Reverse battery protection
- Over current protection
- 3 Box sizes available
- Over voltage protection
- AC 'On' indicator

	1 Amp	2 Amp	3 Amp	5 Amp
12 Volt	✓	✓	✓	✓
24 Volt		✓	✓	



Multi Indicator

Features include:

- Reverse battery protection
- Over current protection
- Standby indicator
- 3 Box sizes available
- Over voltage protection
- AC 'On' indicator
- 12V Output fuse fault indicator
- Battery fail

	1 Amp	2 Amp	3 Amp	5 Amp
12 Volt	✓	✓	✓	✓
24 Volt				



Graded

Features include:

- Reverse battery protection
- Battery load test monitoring (G3)
- Over current protection
- APS fault relay and LED
- 3 Box sizes available
- Battery low voltage monitoring
- Battery deep discharge protection
- Over voltage protection
- EPS fault relay and LED

	1 Amp		2 Amp	
	Grade 2	Grade 3	Grade 2	Grade 3
12 Volt	✓	✓	✓	✓
24 Volt		✓		



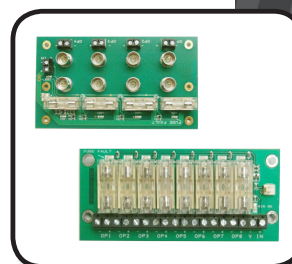
Splitters

4 Way Splitter

- 4 Individually fused outputs
- 4 Fault output LED's
- Suitable for use with 3 - 5 amp power supply

8 Way Splitter

- 8 Individually fused outputs
- 8 Fault output LED's
- Suitable for use with B-Box power supply



Box Type	Box A	Box B	Box C
Size	230 x 170 x 100	260 x 320 x 100	400 x 425 x 100
Weight	2.0Kg	3.5 Kg	4.5 Kg
Max No. of Batteries (12V 7AH)	1	2	3

- Reduces Power Consumption
- Resettable Fuses
- Saves Money
- Full Current to Load
- Eco Friendly

2Y-LINK CCTV

2Y-LINK ® is a unique CCTV transmission system developed with patented two-wire technology. It uses only one pair of wires to supply power to the camera and at the same time transmit video, audio and other signals in the same pair of wires between the surveillance site and the control room. The transmission distance can be up to 1500m, depending on the choice of 2Y-LINK ® models.

The 2Y-LINK ® CCTV transmission system consists of the following devices:

Mixer

This is a compact, weather-proof device installed close to each camera, it receives DC power and receive signals (like audio signal, control data etc...) from the control room and at the same time, transmits video and other signals back to the control room down the same pair of wires.



Signal Processor

Installed close to the DVR/monitor in the control room. It supplies power and transmits control data and audio signal through a single pair of wires to each camera. At the same time it receives, through the same pair of wires, video and other signals continuously from the camera(s) and channels them to the DVR/monitor/applicable equipment. Single channel, 4 channel, 12 channel and 16 channel signal processors are available.



DC power supply

The power supply is either built inside or connected externally to Signal Processor in the control room to supply power to the cameras/Mixers of the CCTV installation.

- HIGH quality real time video as good as a coaxial installation
- EXCELLENT immunity to electromagnetic interference
- NO power points and adapters close to camera are required
- NO polarity restriction on the connection of two-wire
- REDUCED installation cost
- A single Cat.5e can support 4 camera's
- Combination of Cat.5e and Bell cable

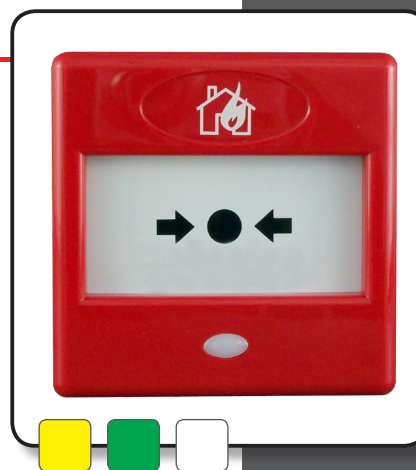


ACCESS

FP3

The FP3 is available in a variety of colours to suit different applications. The red is available as single pole and is certified to EN54-11 and CPD. The green, white and yellow are available as single or double pole.

- Available as double pole or single pole
- Key resettable
- Red - jumper selectable end of line resistors 470-680 Ohms
- White, yellow & green for use in other applications such as Access Control
- Lift up cover available
- CPD Certified



Exit Buttons

A range of Stainless Steel green domed, push plate and standard architrave exit buttons designed to meet the most robust applications and to comply with Risk Assessment RA001 and EN50133/Industry Codes of Practice. Designs have been made to comply with Health & Safety regulations



JUNCTION BOXES

Tampered

Available as a 5, 8 or 24 terminal with a unique 2 terminal lid tamper Grade 3
Available in white or brown



Multi Tampered

Available as a 5, 12, 24 way screw terminal with lid and base tamper
Microswitch tamper
Optional base tamper
Grade 3
Available in white or brown



Environmental Class III

The JB757 is a 12 way Junction Box which features a micro-switch lid tamper. It comes in a weather proof housing, is Grade 3 compliant and rated to Environmental class III.

The unique features of the JB757 is its ability to accommodate different sizes of trunking with its unique knock-out adapters and it will also accept standard conduit by changing the adaptors to suit your application.



Go to www.cqr.co.uk for a full range of CQR and FIREBRAND products



FIRE & SECURITY

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