Control Systems

FP8

FRONTIER PITTS

Right: Various style and sizes of red over green traffic light. Special security 'Cage' and different fixing methods available, i.e. wall, pole or mounted unit.
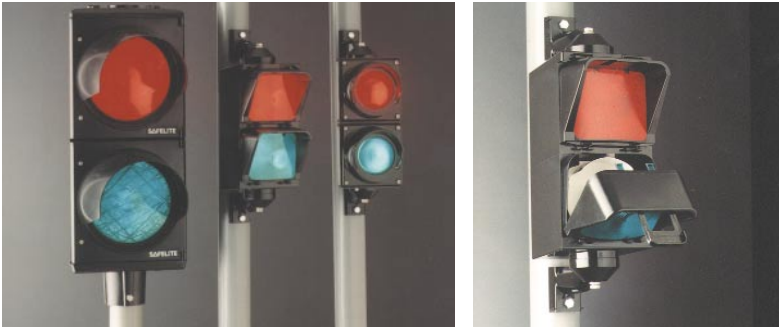
Left: New range of 'Dual Wire' video and audio intercoms finished with stainless steel, aluminium on high impact plastic.

Below: Proximity card reader with mini printer for report feed back. We can provide a range of on-line PC and stand-alone card readers.

Above: A touch card reader provides easy programmability of unit with 'special cards'. Full range of units available.

Right: Digital keypad finished in stainless steel and high impact plastic with built in microcontrollers. All programmable from key board.
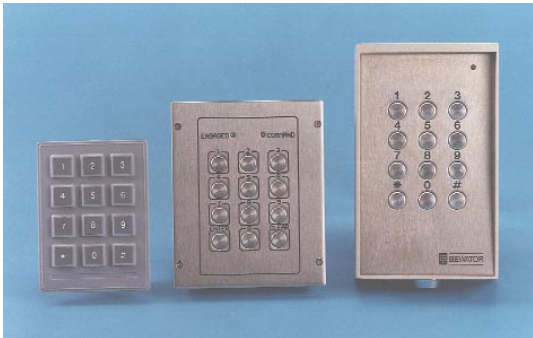
Below Left: A simple coded card key reader to provide authorised access for gates and barriers.

Below Right: A cost effective audio intercom with stainless steel external unit and 12 V PSU to drive external lock.
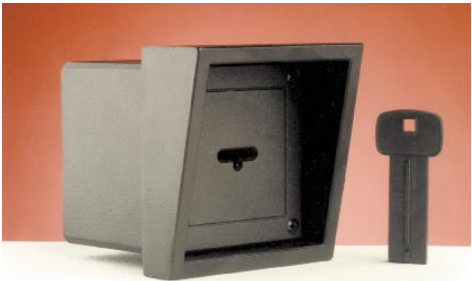
1. Infra red photocell unit used to provide safety on gates, barriers and blockers

2. Automatic loop amplifiers provide safety for gates and barriers using the latest micro processing technology to ensure the best up to date details of all types of modern vehicle.

3. A raise/lower mechanical key switch.

4. An engraved control console to control many entrances with complex monitoring of each entrance, featuring liquid crystal display.
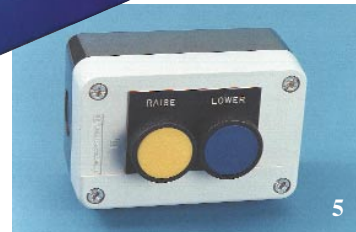
5. A raise/lower Push button.

6. Vehicle 'signature' loop detector.

7. Slimline ticket acceptor unit.

8. A heavy duty ticket dispenser used in car parks to allow entrance and exit. Uses dual band magnetic technology.

9. Inside a typical sliding gate control housing with motor drive unit and micro processor control, all to the relevant IEE UK standard for motors wiring and machine safety. All products EMC compatible.

10. A mechanical token unit with profile coins.
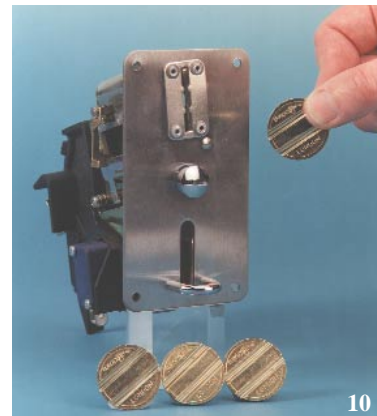
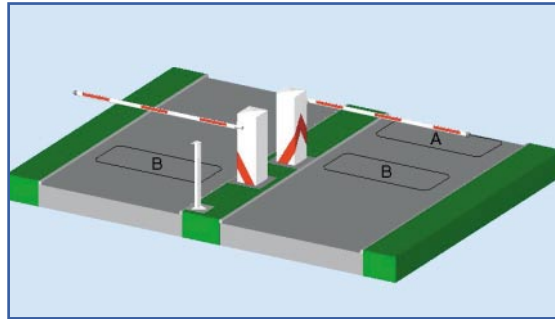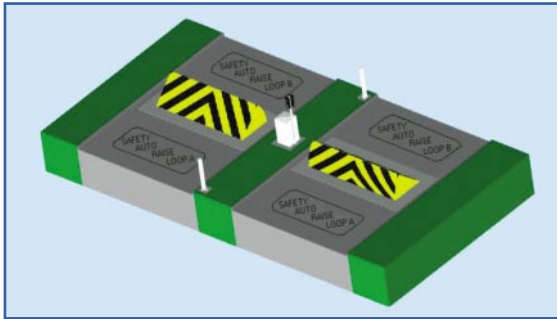11. Dual channel VHF (DTI-approved) transmitter key fob.

Control Systems

Left & right: Typical 3D diagrams that show general layout of safety loops card reader and products. Contact Sales Office for further details for specific site.

With perimeter security gates and barriers playing such an essential role in regulating and restricting the flow of traffic, reliable operation of both these and their associated control systems is a key requirement. Frontier-Pitts will design, manufacture and install a complete package tailor-made to meet your individual requirements. Usually processed through programmable logic controllers, the control systems offer a high degree of reliability and flexibility of operation and enable the interface of many systems.

Remote Push Button Control systems
Used mainly on 'manned' premises, remote control equipment is particularly suitable for heavy and frequent usage. A number of methods of operation are available these include a raise/lower twist switch, raise/lower push buttons or engraved desk top consoles. Control units are supplied pre-wired for ease of installation.

Card Readers
Card reader systems are numerous and varied. Ranging from basic magnetic key readers, which are cost effective and ideal for denying access to a site by unauthorised users, to fully programmable touch-card readers where each card has its own individual number. Swipe, proximity, Wiegand and full on-line management systems are available with the option of full anti-passback and timed anti-passback if required.

Digital Keypads
Ideal for numerous applications, these are made of stainless steel and are vandal-resistant. The digital front panel is fully programmable with a master code and four separate user codes. All codes can be changed by authorised personnel.

VHF Radio Control systems
These have a range of between 20 and 1000 metres and operate DTI approved working frequencies. Transmitters are battery operated and available in three versions -hand-held, key-fob or industrial type. Handsets have the facility for up to four operational functions.

Intercom systems
The user panel is made from weatherproof stainless steel and has a single call button. Standard operating ranges for optimum speech quality are 50, 100 and 300 metres - amplification is necessary for longer distances. Standard systems operate on a one-to-one basis but multi-point operation is available and all systems are fully expandable.

Coin operated Machines
These use an internal keypad to set the required 'vend' amount, which can be anything between 1p and 9999p, while an on-board counter is provided to indicate the total amount of money which has passed through the machine. There is also an optional LCD display showing the amount due and other messages. Coins are stored in a strong box within the machine until collected.

Token operated Machines
These operate in the same way as coin-operated machines, but using profile security tokens.

Ticket Dispenser
The machines enable time, date, serial number and company or authority name to be printed on the ticket. The action of removing the ticket can be made to operate a barrier or gate, or alternatively the unit can be combined with a coin-operated machine, enabling a parking fee to be accepted before the ticket is dispensed or barrier raised.

VEHICLE SAFETY SYSTEMS

Induction Loops
A cable loop installed in the road surface produces a magnetic field, which alters when a vehicle passes over it. The loop amplifier microprocessor registers this change, and generates a signal, which is sent to the control equipment to activate the gate or barrier.

Other control equipment available includes
Infrared detection systems, Automatic vehicle recognition systems, Timers, Traffic lights.

All Frontier-Pitts products are available in a wide range of colour finishes in line with the BS and RAL colour spectrums.