

INFRACOM®

Signal Transmitter CIX1



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Description

Conventional Security Systems such as those used in department stores to catch shop-lifters, consist of large expensive detectors positioned at the doors and passive modules fitted to the protected merchandise. When an item protected in this way passes through an alarmed door, the passive module attached to the goods disturbs an unstable electromagnetic field between the detectors. This disturbance is sensed by the door system, which sounds an alarm to indicate that someone has passed the door with a protected item.

The alarm modules are passive, i.e. they do not require a power supply and electronics. Major drawbacks include the expensive control electronics and the very large detectors (usually column shaped) required at each door. However, the most significant disadvantage is that, since it is not the alarm module itself that emits an audible signal when it passes an alarmed door, the actual module and the item it is supposed to protect, cannot always be readily found.

BRÄHLER ICS®, with over 30 years experience in the conference equipment rental market, know that these conventional security systems are not suitable for protecting conference receivers from accidental removal or theft. At the end of a typical meeting, a large number of delegates will pass through the same door at the same time. A security system that only sounded an alarm at the door itself, could only be effective if enough extra staff were available to be able to stop and question everyone leaving. This is not feasible at most meetings.

The Concept

Easy identification would be possible provided each receiver could emit it's own audible alarm. This very feature - and other important features - are found only in INFRACOM®GUARD, the security system developed by BRÄHLER ICS®.

The INFRACOM®GUARD security system consists of one or more mains-powered Signal Transmitters connected to a number of induction loops. The exit sensors react with alarm modules installed in INFRACOM®GUARD equipped receivers. INFRACOM®GUARD alarm modules may also be fitted in other high value items.

The induction loops are fitted at doors specified by conference organizers and/or the operators of the conference system. These protected areas would be identified by conspicuous notices.

If an INFRACOM®GUARD receiver is taken through a door monitored by INFRACOM®GUARD, the previously "passive" alarm module inside the receiver is activated by the electromagnetic field of the sensor range. When activated, the module emits a clearly audible alarm signal in short intervals.

Sensor Ranges

consist of induction loops located at the foot of the exit doors and leading into the conference rooms.

Standard alarm modules are programmed to sound their alarm for around 15 seconds once activated. After this time they will switch off provided they are no longer within a sensor range.

The Signal Transmitter

Housed in a compact aluminium case is suitable for connection to most trunking systems or may be installed above a suspended ceiling. Mains power is required at the Signal Transmitter location. The Signal Transmitter may be switched on either directly via its own on/off switch, or remotely switched via any R4C standard wired remote control (as fitted to all INFRACOM® infra-red transmitters).

One Signal Transmitter may drive several door sensors. Once installation is completed, the entire sensor circuit is adjusted for resonance using a rotary selector and meter fitted to the

Signal Transmitter.

For applications that require Signal Transmitters and sensor ranges to be used continuously, the INFRACOM® transmitter remote control option is best. This will obviously mean that the transmitter will have to remain switched on as long as delegates with receivers remain in the conference room.

Technical Data

Signal Transmitter

- Power supply: Switchable 110/220VAC
- Signal-clock ratio: 1:4 (ON/OFF modus), quartz-controlled
- Number of doors/exits controlled: 1-6, depending on dimensions of doors
- Remote-controlled on/off switch: Chassis R4C socket
- Power consumption: 25VA

Housing

- Aluminium, "silver" anodized
- W x H x D (226 x 55 x 150)mm
- Weight: 1.9kg

Sensor ranges

- Distance between alarm module and induction loop 0.5...2m
- Reaction time before alarm module sounds once in sensor range: approximately 0.5s
- Sensor field polarisation: vertical and horizontal
- Cable for induction loops: 1x1.5sqmm
- Possible size of sensor ranges: variable, at least size of the door x1.5m

Accessories

IRX Receiver

up to 32 channels, disposable and rechargeable batteries