



3GS ENCRYPTION NODE

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3GS – The Integrated System

3GS, Europlex's Third Generation System, offers unparalleled integration of the following disciplines:

- Intruder Alarm
- Access Control
- Wireless Panic Alarm
- Radio Paging

3GS offers security in conformance with EN50131 Standards, up to Class C level. The Class D / High Security Standard requires a further step-up in security, which Europlex achieves on 3GS through the application of its Encryption Node technology.

'End-of-Line' Security

The traditional method of providing a higher level of security is to place end-of-line resistors within the detectors or sensors connected to the control panel. The panel scans its circuits, usually at the rate of several times per second, and reacts to the change of resistance level reported by the detector or sensor. With 3GS, 2k2 resistance is taken as a 'closed' circuit, 4k4 an 'open' circuit, zero resistance a 'short circuit' and so on.

Class D systems, however, require more. The Apex Control Panel achieves a higher level of security through the use of Hybrid (SMT) or miniature LEMs (Line Encoder Modules), which are placed within the detector or sensor itself, thus raising the degree of difficulty for system compromise.

3GS Data Encryption

The 3GS offers the installer a selection of I/O Nodes with which to connect sensors and detectors:

- 8 Zone / 1 Output Node
- HUA Node (4 Zone / 1 Output)
- RKD Node (2 Zone / 1 Output)
- Access Node (2 Zone / 2 Outputs)
- Encryption Node (8 Zone / 1 Output)

The latter is a version of the standard 8 + 1 Node, with an extra microprocessor, which scans encryption modules (or SMARTies) placed inside the sensors or detectors. SMARTies are Synchronous Modular Articles Randomly taken in Encrypted Sequence, and are unique to Europlex.

SMARTies are pre-programmed at the factory with one of 256 randomly-selected addresses.



Encryption Node and SMARTies

The Encryption Node offers up to 8 'encrypted' zone inputs, through the selection of the 'encrypted mode' for any or all of the zone inputs. Thus, the Encryption Node offers the selection of 'normal' as well as 'encrypted' zone inputs, on the same Node.

3GS Ringnet Advantages

As with the rest of the 3GS family of nodes, the Encryption Node has the following benefits:

- High speed RS485 comms. (307 Kb Baud)
- Fault-tolerant bi-directional communications
- Infra-red Hand-Held Terminal link
- On-board buzzer (for 'FIND' function)
- 1Km node-to-node range

How to order

Product	Code
Encryption Node Complete	9533
Encryption Node	9533A
SMARTies (box of 10)	9534

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