

3GS Access Control



Overview

The 3GS system supports up to 64 doors of access control per 3GS controller with 10,000 card users, 250 door groups, 250 access levels and 64 time zones. The access control cards have a pre-set site code and can be assigned a PIN code, door groups (sets of doors with similar attributes) and pre-programmed time zones (each time zone can have 4 on/off slots). Door control can be set for manual override, open/lock inhibit attributes and are monitored for door jamming or forced entry. The anti-passback feature on the doors ensures that the same card must be used to enter and exit the door. When set to a group of doors, anti-passback forms a secure perimeter within the premises area and enables effective card tracking.

The access control card, door, and node activity is logged in the 3GS system log (1000 events) and the access log (3000 events). Exceptions also logged include:

- Unassigned card
- Door not assigned to card
- Out of time zone
- Invalid PIN Code
- Door open time exceeded
- Door not assigned to card
- Door forced
- PIN Code time-out
- PIN code duress
- Anti-passback

Technical faults, such as Node Mains failure, Battery Problem, Fuse failure, are also recorded in the access log. Integration of access control and intruder alarm is achieved on the 3GS using the 3GS access nodes. Arming and disarming of the 3GS system can be done using a card on the access system.

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3GS 4 Door Access Control Node



Overview

The 3GS 4 Door Access Control node is a new 4 door controller for the 3GS system. This node is primarily used to provide integrated access control on the 3GS system. The node can be powered either by using the Europlex Intellipower PSU (all technical parameters are reported by the Ringnet) or a 12V DC supply. The node features on-board ferrites for improved Ringnet noise immunity and ease of installation. 5V and 12V outputs with resettable PTZ fuses are provided to power card readers. The addition of an upgradeable flash memory chip ensures the 'future proofing' of the node for use with the next generation of Europlex Controllers.

Features

- Reader inputs – 4 on-board Clock & Data or Weigand reader inputs, which can be configured as
 - 4 Entry Readers
 - 2 Entry and 2 Exit Readers
 - 3 Entry and 1 Exit Reader
- Door Inputs – 4 door inputs with Dual (2K2) EOL supervision
 - Door Forced
 - Door Left Open
 - Integrated Alarm zone type
- Door Outputs – 4 on-board 3 Amp single pole changeover relay outputs for door lock control
- Request to Exit – 4 on-board inputs for door lock control
- Inputs – 2 on-board alarm inputs with Dual (2K2) EOL supervision
- Outputs – 4 on-board 3 Amp single pole changeover relay outputs.
- Tamperers – Front and Back Tamperers monitored with bypass option
- Upgradeable flash memory chip – Future use
- Infra-red Communications Interface - Used for Hand-Held Terminal (HHT)
- PTZ Fuses – 2 x 500mA resettable; These can be reset by momentarily breaking power to the node
- PSU interface – Monitored Intellipower PSU header or 12V DC supply

Technical Specification

Security Grade	EN50131-1; 1997 Grade 3
Environmental Class	Class II Indoor General
Power Supply	Via PSU Intellipower Connector CON1, or adjacent 0/12V IN Connector
Operating Voltage	13.7VDC
Minimum Operating Voltage	9.5VDC
Quiescent Current	60mA
Maximum Operating Current	350mA (IR off); 420mA (IR on)
PCB Dimensions	212mm x 142mm x 23mm
5V Reader Supply fuse	500mA Hold, 1A Trip Resettable
12V Reader Supply fuse	500mA Hold, 1A Trip Resettable
Inputs	2 x Dual 2k2 End of Line Resistors monitored alarm inputs
Door Inputs	4 x Dual 2k2 End of Line Resistors monitored door inputs
Outputs	4 x 3Amp Single pole Changeover Relays
Door Lock Outputs	4 x 3Amp Single pole Changeover Relays
Reader Types	Clock & Data, Weigand
Front Tamper	Front tamper spring provided
Back Tamper	Terminal Connections provided
Communications	RS485 at 307k2 baud (Ringnet) and Infra Red Communications
Memory Backup	Flash
Temperature Range	-10°C to +40°C
Humidity Range	0% to 90% (non-condensing)