FoxSec elevator door controller

FoxSec® products provide a complete and fully featured hardware and software infrastructure for access control and intruder alarm systems.

FS6300IO Elevator controller connects 2 card readers via Wiegand or clock-and-data (magnetic card) interface controlling either eight or sixteen floor buttons. The FS6300IO features on-board memory, allowing changes to be downloaded via the RS485 network. On-board dataline has optical isolation and on-board 12V or 24VDC (optional) power output (must be specified on order)

FS6300IO is compatible with FS9131 door dataline module and FS9000/FS9002 main panels.
The FS6300IO and FS9000/FS9002, in turn, communicates with the system server (FoxSec Smart Pass, FoxSec Net+ or FoxSec WEB) via TCP/IP over LAN or WAN.

Internal memory stores up to 7680 users and last 2000 events.

FS63100IO Features

8 floors / 16 floors

Up to 1,850 or 7,600 card users and 2,000 recent events in the controller memory

1 Wiegand input

Optical isolation

Metal case 290 x 280 x 80

Power supply unit 12VDC, 2A

Battery control and capacity test

Features

Metal enclosure protects components from damage and tampering the device. Mount to any wall surface.
The unit s hould be installed indoors, inside a secure area, such as in IT or telecommunications room, utility closet or on a wall above suspended ceiling.

All screw terminal connectors
One RS-485 connection to dataline

1 card reader inputs

1 electronical fuse protected 1A 12VDC Power output for elevator module or other device
8 output relays 8 x 1A (max50W @ 48 VDC) 8 floors
16 output relays 16 x x 1A (max50W @ 48 VDC) 16 floors

AC Power input
1 Tamper switch input

The user should supply 12 VDC to connected interfaces. Separate supervised DC supplies with battery back-up are recommended

16-bit CPU Microcontroller, 16 MHz

2A output power (external device etc) electronic fuse
1.1A card readers electronic fuse
100mA input protection electronic fuse (each input has separate fuse)
Transformer inside thermal fuse 130ºC 2.2A@16VAC

32 k Flash memory inside microcontroller
128k EEPROM memory non-volatile
32k FRAM memory non-volatile

Specifications

Dimensions
290W x 280H x 80D mm without lid
(11.4" x 11.2" x 3.15")
Weight
2.70kg (95 oz) without battery
Casing Material
Metal

Power Supply Requirements
100-240VAC 50/60Hz power transformer
Main fuse 500mA
Power transformer output supply 16V
Power transformer max output current 2.2A
Controller current 120mA @ 12VDC
PWM (Pulse-with modulation) regulator on-board
Recommended: Factory installed power transformer.
Battery backup input surge protection and AC Fail is fully monitored in controller. Separate supervised DC supply with battery back-up recommended if power supply max consumption exceeds

Operatin Environment
Indoors or customer-supplied NEMA-4 Enclosure
Temperature
-10° to 40° C (-14° to 104° F)
Humidity
0% to 80% relative, non condensing
Materials
RoHS compliant 2002/95/EC

Communication Ports
1x RS-485- two wire with optical isolation

Cable Distance
RS-485- 1500m (4900 feet), using shielded twisted pair cable (Cat5e, Cat6e)
Input Circuits- 300m (500 feet), using 4 x 0.22 cable
Output Circuits- 300m (500 feet)
Card reader- 50m (165 feet) 2 x 0.5+4 x 0.22+S
Minimum wire gauge depends on cable length and current requirements

Protection
4000 - VPEAK Isolation
2500- VRMS isolation up to 60sec
Human Body Model Up to 16kV (ESD)
Charged Device Model Up to 1kV (ESD)
Machine Model Up to 200V (ESD)
Thermal Shutdown Protection
Onboard DC-DC converter isolation Up to 3kVDC