

FoxSec 16-zone expansion module

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

FS9316 is EN-50131 Grade 3 compatible Intruder Alarm System (certification pending).

The FS9316 zone expansion module has up to 16 supervised inputs and 2 or 8 output relays. Each input monitors and reports normal, off-normal and alarm states.

The FS9316 connects to FS9002/FS9000 and FS9010 main panels via CANbus.

FS9316 features backup battery capacity test, battery reverse polarity protection, LED indicators for various statuses of onboard systems, separate input for temperature sensor and easy to use pluggable terminals for all PCB connections.

Optionally the FS9316 zone expansion can be ordered with 2 fiber optics ports for extending zone inputs over existing fiber optics channels allowing more flexible expansion of zone expander network. Also FS9316 can be ordered with I2C expansion port for connecting additional relay modules to expand onboard output relays.

FS9316 Features



16 supervised zone inputs, 2 or 8 relay outputs (expandable to 40 outputs via optional I2C port)
All zone input EOL resistors are freely programmable



Relay outputs are programmable



Temperature sensor input



2x Fiber optics (SC-duplex) ports (optional)



Status LED's for easy visual diagnostics of troubles, zone states etc.



Metal case 191 x 130 x 40



Transformer 40W



Battery control and capacity test



Battery reverse polarity protection

Features

The unit should be installed indoors, near secured area such as in the IT or telecommunications room, utility closet or server room

One CANbus connection to dataline

One I2C connection to extension modules (optional)
Two Fiber optics (SC-duplex) connections to dataline (optional)
16 supervised zone inputs
2 or 8 relay outputs onboard, expandable up to 40 outputs

1 electronical fuse protected 1A 12VDC Power output for sensors power

AC Power input
One Tamper input

16-bit CPU Microcontroller, 16 MHz
500mA output power (for sensors) electronic fuse
100mA input protection electronic fuse (each input has separate fuse)
Transformer inside thermal fuse 130° C 2.2A@16VAC
16 k Flash memory inside microcontroller

Specifications

Dimensions

191W x 130H x 40D mm without lid
(10.0" x 11.5" x 3.54")

Weight

2.70kg (95 oz) without battery

Casing Material

Metal

Operating 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

1 x CANbus- two wire
1 x I2C- for extension modules (optional)
2 x Fiber optics- SC-duplex for CANbus extension up to 20km (optional)

Cable Distance

CANbus- 1500m (4900 feet), using shielded twisted pair cable (Cat5e, Cat6e)
Input Circuits- 150m (500 feet), using 4 x 0.22 cable
Output Circuits- 150m (500 feet), using 2 x 0.5+2 x 0.22 cable
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