BIAMP

VOCIA® Life Safety Interface 16e (LSI-16e)
DATA SHEET

The Vocia® enhanced Life Safety Interface 16e (LSI-16e) is a networked device that serves as an interface between a Vocia system and emergency or fire alarm systems. The LSI-16e may accept up to three sources of power: main power is from an external, standards compliant and battery backed 24V DC source; the LSI-16e can also utilize Power over Ethernet (PoE) delivered via either of its two network ports. The device is equipped with parallel I/O ports for direct interface to fire and emergency control equipment. The LSI-16e uses Ethernet-based control protocols to function within a Vocia system.

FEATURES

- Parallel I/O ports for direct interface with fire alarm and emergency equipment
- 8 monitored I/O and 8 control inputs
- Redundant network connection and power supply options
- Power and data over a single Ethernet cable
- Local storage of configuration data
- Rotary switches for unit identification
- Up to 4 discrete emergency inputs
- 16 additional general purpose inputs can be programmed to play an emergency message, enable zone reset or zone silence; maximum of 10 inputs can be assigned per emergency zone
- Each general purpose input can be programmed as TTL, high range or monitored high range
- General purpose inputs allow monitoring for short to ground and open circuit
- Up to 500 virtual inputs via RS232 or Ethernet
- Provides system health monitoring via RS232 or Ethernet
- Status LEDs
- Rack mountable (1RU)
- CE marked and RoHS compliant
- EN 54-16 certification pending
- Covered by Biamp Systems' warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The life safety interface shall be designed exclusively for use with Biamp® Vocia systems. The life safety interface shall provide a networked emergency interface to third-party emergency and alarm systems. It shall have redundant power supply and network connections. The life safety interface shall be powered from a certified 24V DC power source or over Ethernet (PoE) via either of two network ports. The life safety interface shall have eight monitored I/O and eight control inputs. The life safety interface shall offer up to 20 discrete emergency inputs, 16 of which shall be programmable to play an emergency message, enable a zone reset or zone silence. The life safety interface shall provide up to 10 inputs per emergency zone. The life safety interface shall be UL listed and shall be compliant with the RoHS directive. Warranty shall be five years.

The enhanced life safety interface shall be a Vocia LSI-16e.

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Life Safety Interface 16e SPECIFICATIONS

System Fault Relay:

Type:	Single 'Form C' voltage-free SPST change-over contact
Load:	Resistive
Maximum operating voltage:	125VAC, 60VDC
Maximum operating current:	600mA AC, 1A DC
Maximum switching capacity:	37.5VA, 30W
Minimum permissible load:	10µA @ 10mVDC

Control Inputs:

Number:	Eight
Type:	Opto Isolator LED
Cathode presented at input – pull low to enable. Sink Current:	
Min:	1mA
Max :	6mA
Maximum Terminal Voltage:	24V
Isolation:	3kV

Monitored I/O:

Number:	Eight
Type:	FET switch, open drain (low side driver)
Maximum Continuous Current:	0.35A
Current Limit:	0.8A
Maximum External Supply:	35V
VMon Input Shutdown:	35V

General Purpose Inputs:

Number:	16
High Range Logic Low:	0-11V DC
High Range Logic High:	12-30V DC
High Range Hysteresis:	1V ± 20%
TTL Logic Low:	0-0.8V
TTL Logic High:	2-5V
TTL Hysteresis:	1V ± 20%
Input Transient Protection:	± 8KV peak
Input Isolation:	500V RMS (isolation from LSI-16)

RS232 Port:

Type:	DTE
Baud Rate:	57600

Connection: RJ45 with shielded Ethernet/PoE cable (Cat5, Cat5e, Cat6 or Cat7)

Power:

Main:	24V DC 15W
PoE:	802.3af Class 3

Base Dimensions:

Height:	1.75 inches (44.5mm)
Width:	19 inches (483mm)
Depth:	10 inches (254mm

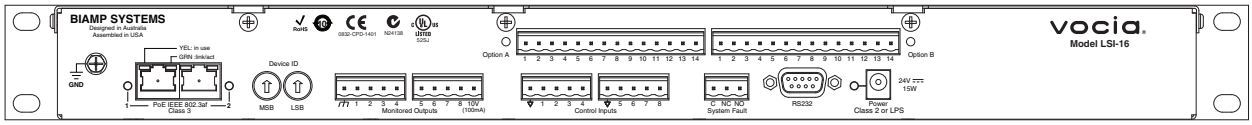
Weight: Approx 6.4 lbs. (2.8kg)

Ambient Operating Temperature Range: 32-113 degrees F (0-45 degrees C)

Compliance:

FCC Part 15B
CE marked
EN 54-16 certification pending
RoHS Directive
UL 60065 Listed, E215636
C-UL Listed, E215636
C-Tick, N24138 (Australia)

Life Safety Interface 16e BACK PANEL



Life Safety Interface 16e BLOCK DIAGRAM