

Description

The Z-A431EU alarm panel DSL filter is designed to eliminate the interference that occurs with alarm systems and ADSL service, and that often prevents proper operation of alarm panel features.

Alarm dealers and service providers have taken various approaches to solve this problem, such as:

- Installing a splitter or separate phone line, which is more costly and time consuming than installing an alarm filter.
- Installing a standard DSL filter at the alarm panel, which could prevent the alarm panel from seizing the line to dial out in an emergency if it is cut.

None of these approaches provide an inexpensive and straightforward solution to the problems created by the coexistence of DSL service with an alarm system.

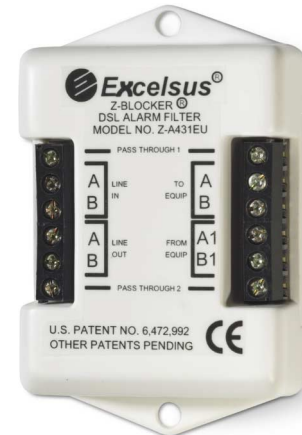
Designed specifically for alarm systems, the Z-A431EU isolates high frequency ADSL and HPN (Home Phone Network) signals from low-frequency voice and data signals. This enables simultaneous full functionality of both the alarm panel and the DSL service. The Z-A431EU has three filters: one plain old telephone service (POTS) low-pass filter to protect the alarm panel from ADSL interference, a second POTS low-pass filter to protect ADSL from impedance changes in the alarm panel, and a high-pass ADSL filter to ensure ongoing ADSL service, even during an alarm call.

The Z-A431EU is the first alarm panel DSL filter that is compatible with the new European technical standard EN 50131 for alarm/intrusion systems.

Features

- Supports the line seizure and cut-line protection features of the alarm panel, providing reliable dial-out in case of an emergency or cut line
- Provides uninterrupted ADSL/HPN communication during alarm panel incidents
- Surge protection circuitry for extra customer premises equipment protection from lightning surges and power crosses
- Two pass-through lines for line monitoring and signaling by the alarm provider
- Compatible with most major alarm panels used in residential and small business applications

- Compatible with EN standard 50131 for alarm/intrusion systems
- CE Mark certified



Screw terminal connections provide support for the line seizure and cut-line protection features of most alarm panels

Applications

The Z-A431EU filter is designed for use by alarm manufacturers, licensed alarm service providers and security industry distributors. It is compatible with many alarm panels in the United Kingdom, France, Italy and other countries that can utilize screw terminal connections. The unit can mount on the wall or inside the alarm panel, and has screw-down terminals for connecting the phone line and alarm panel.

The Z-BLOCKER Z-A431EU can be used in conjunction with other Z-BLOCKER DSL filters distributed throughout the subscriber's premises for DSL filtering of voice band equipment devices including wired/cordless telephones, fax/answering machines, dial-up modems, and automatic dialers. Excelsus is the number one selling brand of DSL filters worldwide.

Z-A431EU Alarm Panel DSL Filter

Z-BLOCKER® Z-A431EU Alarm Panel DSL Filter Specifications	
ADSL Insertion Loss (32 kHz to 1.1 MHz)	
32 kHz to 300 kHz	<8dB
300 kHz to 1.1 MHz	<7dB
Insertion Loss (1000 Hz)	
Short loop	<1.0dB
Long loop	<0.75dB
Insertion Loss (200 to 3400 Hz)	
Short loop	+3.5dB to -1.5dB
Long loop	+3.5dB to -1.5dB
Insertion Loss (3400 to 4000 Hz)	
Short loop	+10.0dB to -2.0dB
Long loop	+10.0dB to -1.5dB
DC Resistance in Ohms	
At Line port with POTS port shorted, Tip to Ring	<25Ω
At POTS port with Line port shorted, Tip to Ring	<25Ω
At any port with all other ports open, Tip/Ring to Ground	>5MΩ
Longitudinal Balance – Two Port	
200 to 1000 Hz	>58dB
At 3000 Hz	>53dB
Inter-Modulation Distortion at -9dB level	
Voice Band	>57dB
ADSL Band	>60dB
Envelope Delay (600 to 3200 Hz)	
Short loop	<200μs
Long loop	<200μs
Envelope Delay (3200 to 4000 Hz)	
Short loop	<200μs
Long loop	<200μs
Return Loss	
ERL	>6dB
SRL-L	>5dB
SRL-H	>3dB
SRL-H (2200 to 3400 Hz single frequency)	>2dB
Capacitance	
Tip to Ring	>20nF
Tip to Ring (without modem connected)	<115nF
At POTS port, Tip/Ring to Ground	<1nF
DC Loop Current – Meets specifications between 0 and 100 milliamps DC	
Isolates dial pulses and on-hook/off-hook transitions from the digital subscriber line	
Connectors: Two, 6-connection screw terminals for LINE, EQUIP and PASS THROUGH	
Dimensions: Height 3.3in (85mm), Width 2.1in (54.0mm), Depth 0.86 in (22mm)	
Weight: 66g (2.3 oz.)	
CE Mark certified	
US Pat. No. 6,472,992; Other Patents Pending	



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