



GF58270-21 Digital Fire Alarm / Data Filter



Four pair, GF58270-21-4



Single pair, GF58270-21

Product Summary

The Genisco Digital Fire Alarm and Data filters are low-pass Electromagnetic Interference and Radio Frequency Interference filters (EMI & RFI) designed to block high-frequency noise that interferes with the operation of sensitive electrical equipment.

These high performance filters are for both DC and AC applications including:

- Digital Fire Alarm
- Data

These standalone filters are built with a gasketed 1" NPSM pipe to penetrate into a shielded environment (shielded rooms, screen rooms, SCIFs, secure environments, etc.), to maintain emission integrity.

Analog vs. Digital Filter Applications

Analog communication filters are generally used when a system is composed of only analog equipment. If any part of the system contains digital equipment, a digital filter may be required, as most digital systems have ground fault equipment that can be tripped by a filter on the circuit. A digital filter with a higher pass-band frequency may prevent false ground fault triggers.

*SUBJECT TO CHANGE WITHOUT NOTICE
03/28/2014*





FUNCTIONAL CHARACTERISTICS

- Voltage Ratings:
 - 24-400 VDC
 - 125 VAC (50/60 Hz)
- Temperature Rating:
 - MIL-PRF-15733
- Current Overload:
 - 140% maximum current rating
- RF Radiation:
 - Greater than 100 dB isolation
- Dielectric With-Standing Voltage:
 - 1,000 VDC (prior to installation of discharge resistors)
- Insulation Resistance:
 - MIL-PRF-15733

SPECIAL FEATURES

Filters

- Factory pre-wired clean output leads provided through the pipe penetration
- Low Pass filter circuits ~ passive components which includes inductors, capacitors, resistors and optional transient suppression devices
- Manufactured and tested per applicable portions of MIL-PRF-15733
- All circuits provided in single enclosure

Enclosure

- Fabricated case of not less than 18 gauge cold rolled steel electro plated or painted Gray (Std. Paint Color)
- Sealed with welded and soldered seams for minimum shielding effectiveness 100 dB, 14 kHz to 18 GHz
- Threaded steel pipe penetration
- Triple knock outs provided on filter case input
- Front cover access to input terminals
- Mounting tab provided for easy wall mount options

Applicable Specifications

- Military Specifications
 - MIL-PRF-15733 General
- Military Test Methods
 - MIL-STD-202 Component Parts
 - MIL-STD-220 Insertion Loss
 - MIL-STD-285 Shielding Effectiveness
- NFPA 70/2011 National Electrical Code Standards

Available Options

- Surge Suppressors
- Alternate pipe penetration locations on the enclosure available by request.
- Custom Paint Colors (Enclosure)
- RF Secure Penetration Accessories

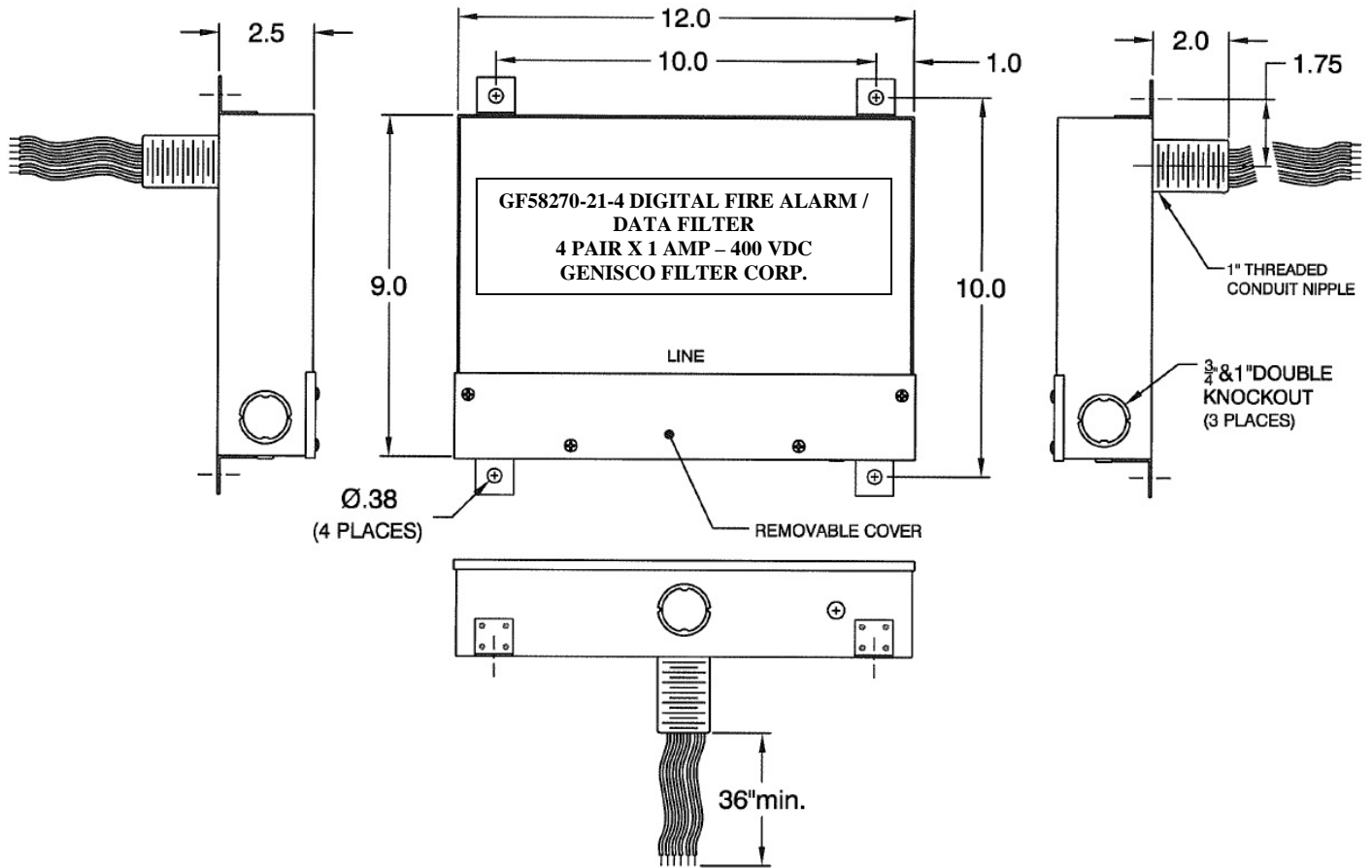
TYPICAL APPLICATION	IMP L-L (OHMS)	IMP L-G (OHMS)	VOLTAGE MAX.	CURRENT MAX (AMPS)	DC RES. (OHMS)	PASS-BAND (KHz)	INSERTION LOSS	TEST FREQUENCY
DIGITAL FIRE ALARM / DATA (56000 BAUD)	600	300	400 VDC 125 VAC	1.0	<=1	0-140	>=100 dB	1 MHz-10GHz





Mechanical Dimensions

**GF58270-21-4
DIGITAL FIRE ALARM / DATA FILTER**



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Mechanical Dimensions

GF58270-21
DIGITAL FIRE ALARM / DATA FILTER

