

Datasheet

Smoke Alarm EMI Filter

CAT. NO: **643093**



What is Electromagnetic Interference (EMI)?

EMI is an unwanted noise or interference of higher frequency in an electrical path or circuit caused by an electrical source connected in the same electric path.

In households, EMI in the supply can be caused by poorly designed or malfunctioning consumer devices. Some power companies use EMI pulses to switch appliances ON or OFF remotely like off-peak hot water systems.

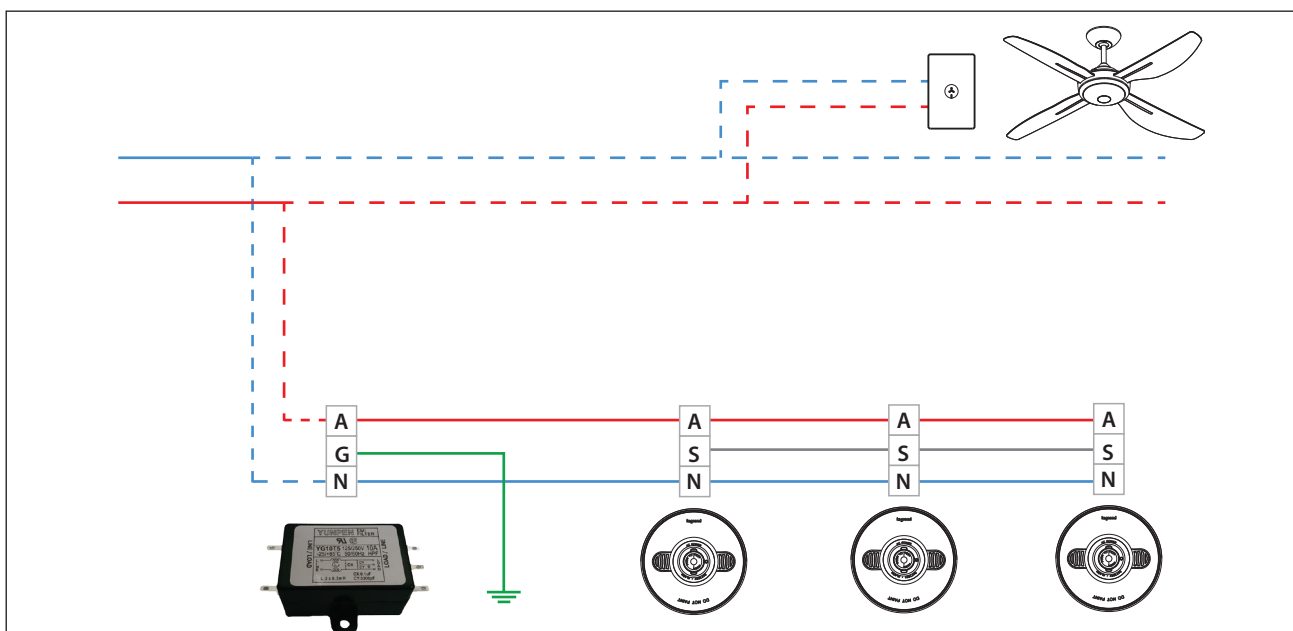
EMI can be radiated, conducted or coupled depending on the closeness of appliances and the connection between them.



How does the EMI filter work?

The EMI filter is used at the beginning of the circuit before the smoke alarm. The EMI is filtered out from the supply lines by taking out the high frequency noise generated by the source devices. The unwanted currents are grounded, and clean current is allowed to flow through to the smoke alarms.

It is advisable to connect only smoke alarms to the circuit after the filter. Any other devices can affect the performance of the filter.



FEATURES

- Flammability corresponding to UL 94 V-0
- Easy installation and compact for space saving
- Suitable for connection to 230-240 V ~ 50 Hz smoke alarms
- Compatible with all Legrand range of smoke alarms
- Includes EMI filter, junction box with connectors and screws

Product Specifications

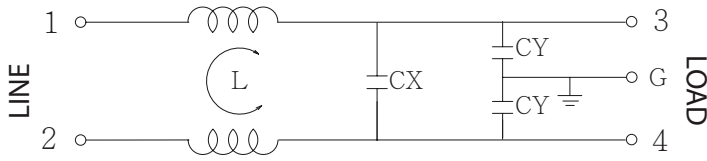
Supply Voltage	230 - 240 V ~ 50 Hz
Rated Current	10 A
Operating Temperature	- 25°C to 85°C
Safety Compliance	UL, CSA, CE

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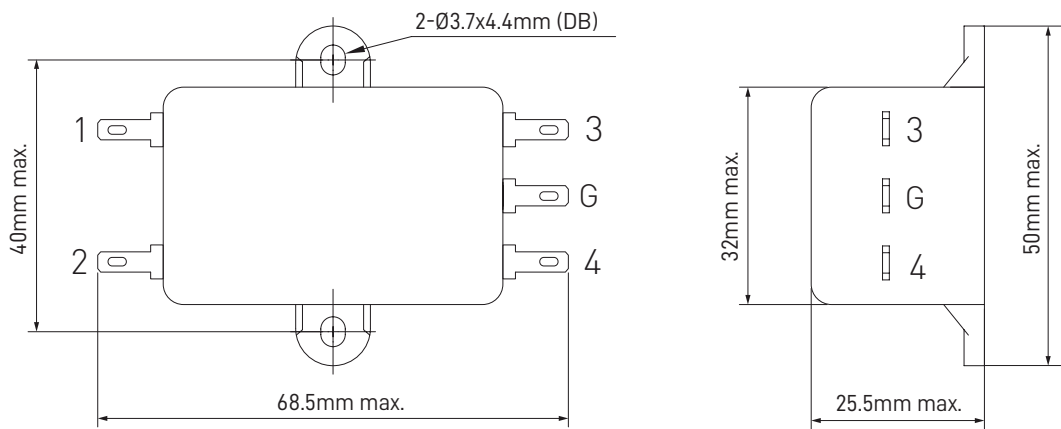
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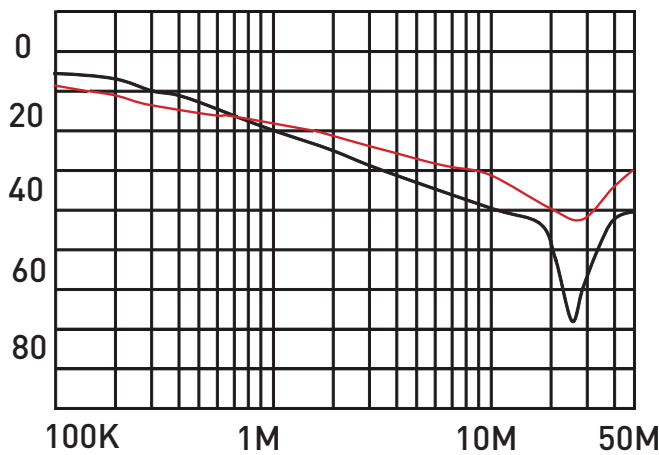
TYPICAL ELECTRICAL SCHEMATIC



DIMENSIONS



TYPICAL FILTER ATTENUATION (Common mode — Normal mode —)



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Refer to your group buying office, Legrand Sales Representative or Legrand Sales Office for pricing.

Please note: specifications are subject to change without prior notice.



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