

Technical Bulletin #14

Connecting a Smoke Generator to the Tsunami® Digital Sound Decoder

Because the function outputs of the Tsunami Digital Sound Decoder (DSD) are limited to 100mA of current, they do not provide enough power to drive most smoke generators directly. However, a simple, inexpensive relay circuit can be built that will allow the DSD to turn a smoke generator or other high current load on and off.

The smoke generator can be wired to the track pickups for a constant plume of smoke or to the motor outputs for a smoke plume that varies with speed. If you wire the smoke generator to the motor, be absolutely sure that the smoke generator is fully isolated from the track pickups and that its current draw along with the motor's current draw does not exceed the decoder's rated capacity.

