

IF YOUR BR-3 BELL RINGER CIRCUIT RINGS CONTINUOUSLY

The Circuitron BR-3 Bell Ringer module has a white control wire that should connect to the output of your Grade Crossing Detection. When the detection provides a ground on its output, the white wire is pulled to ground as well and turns the bell on. There may likely be cases where you want to control other circuits such as alternating flashers, Gate Driver circuits, relays, etc. Sometimes the control voltages on these other circuits may be low enough to activate the BR-3 even when the detection is off. In these cases, you will need to add a diode to the control terminal of the offending board to block current from the BR-3 control wire from feeding back into the offending circuit.

Start by disconnecting the control wires to your flasher, relay, etc, one at a time. If the bell stops ringing when a wire is removed, you have found the problem board. Now install a 1 amp diode (1N4001, 1N4004, etc.) onto the control terminal of that board. The banded end of the diode should face away from the board. Reconnect the BR-3 and the banded end of the diode to your detection output and all should be good.

