



DCC Block Occupancy Detector BOD1

(Uses tuned transformer principle by Wayne Roderick)

Components

U1 LM393 dual comparator (or equivalent)
 D1, D2, D4 1N4148 or equivalent
 D3 Zener diode 5.1v to 6.2v
 D5 UF4001 or UF4002
 LED This is optional but a useful indicator
 Opto There are many to choose from

T1 Coilcraft CS1200
 Secondary inductance 100mH.
 Primary is a single turn.

Use VR1 to adjust the sensitivity.
 Will easily detect a 10K axle load.

Mike Bolton 27/08/08

