# Model Railroad Control Systems

## cpOD – Control Point Occupancy Detector

The **cpOD** is a low cost, DCC only, current sense block occupancy detector for model railroads. It is intended to be inserted inline with one block feeder wire and provide a signal indicating a track block has current flowing in it. The Occupied signal is logic low and can be tied to a computer input port or current limited LED.

Two versions: cpOD with 3 position screw terminal block, cpOD-M with 5 pin Molex connector.

Key Features

- Surface Mount Technology (SMT)
- Small footprint, may be placed close to the detected track section
- 5 and 12 vdc (regulated) operation
- Single turn track feeder wire through toroid coil
- Sensitivity adjustment with onboard LED indication
- Vacant block hold timeout
- Pin compatible with the Chubb ODMB and MRCS ODX4 motherboards
- Supports up to 60A of track current
- Draws 5mA @ 5V
- Open drain output sinks up to 100mA @ up to 60V