



USING DIODES WITH THE CUSTOM SIGNALS' MODULAR SIGNAL SYSTEM

A diode is a simple electronic part that allows current to pass in only one direction. Each diode has a white line wrapping around the diode that is called a "banded end" The banded end acts like a dam and will not allow current to enter the diode from that end. Therefore the power (high end) must be on the non-banded end and the common (low side) must be on the banded end.

The one common use of the diodes is for detection of trains in common track areas such as tunnels or the "OS" sections of turnouts. In this case, the detector or insulated rail will have to be connected to the TM or Rin of each SCB for all the targets protecting the common section. Since the connection on the SCB is looking for a common to activate, the NON-BANDED end is inserted in the screw-down terminal. A similar use is through the Din connection. Since it is also looking to go low, the non banded end will go into the screw down terminal

Common Activation Diode TM, Rin, Din, Yin or SW Terminal



There are situations where the diode will be used with the Dout. Since the Dout is the LOW, diode will be reversed and the BANDED end will be inserted into the screw-down terminal.

Common Activation Diode Dout Terminal



There are other uses of the diode that will be explained with the appropriate instructions.