

Technical Information

Using an Electro Cam Corp. AC Output Module with a PLC Input

In this example, the Electro Cam Corp. AC output module acts as a switch which applies an input signal to the PLC in response to the limit switch settings. Internal to the AC output module is a circuit used to prevent false turn-on of the AC output module. Because of this circuit, a small amount of current (2 mA max.) called leakage current flows when the switch is OFF. In some instances this leakage current will cause a PLC input to turn ON, even though the AC output module is OFF.

To prevent this from occurring, it is necessary to connect a 10K ohm, 5 watt resistor (Electro Cam Corp. part# EC-9001-5010) across the PLC input terminals, as shown below.

Note: A side benefit of a resistor across a PLC input card is it may speed up the response time of the PLC input.

