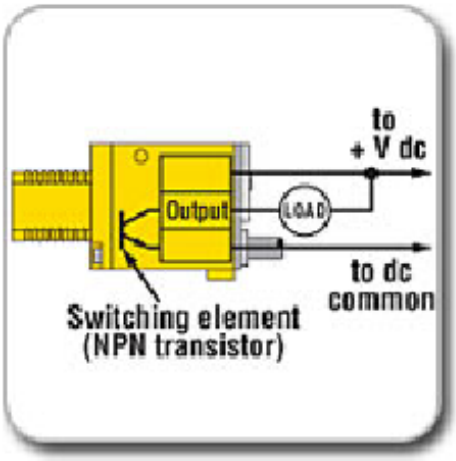
SINKING
VS
SOURCING

DC Sensors to DC Loads: Current Sinking

With NPN, or current sinking outputs, the load is connected between the output of the sensor and the positive side of the power supply. The sensor supply voltage is the same as the load supply voltage.

A current sinking output can also be used to interface to a load that operates at a lower voltage than the sensor supply voltage. The dc common of the sensor supply should be tied to the dc common of the load supply, so that both supplies have a common voltage reference.

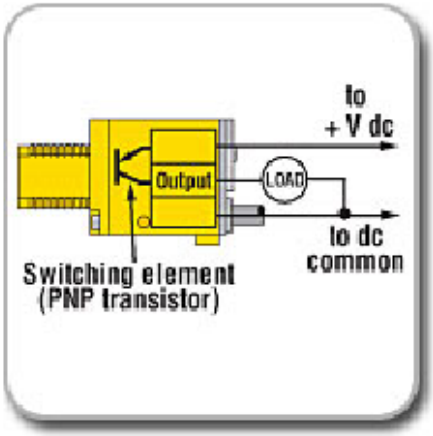


FYI

DC Sensors to DC Loads: Current Sourcing

With PNP, or current sourcing outputs, the sensor provides (sources) the current to the load. The load is connected between the sensor output and the negative (common) side of the power supply.

As in all DC interfaces, the negative of the sensor power supply should be common to the negative of the load power supply.



FYI