

## drive.web dw114 smarty-k Application Note

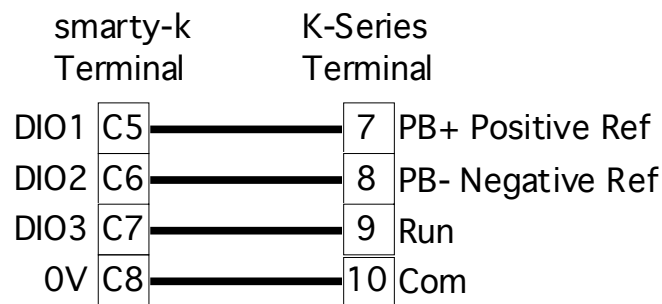
The dw114 **smarty-k** module is a **drive.web** smarty that has been modified from the standard current sourcing output to a current sinking output for use with the K-Series single-phase DC drive.

The specifications for the configurable digital inputs/outputs (DIO) 1-3 terminals on the **smarty-k** are:

<b>Input Impedance:</b>	15 Kohm
<b>Pull-up Voltage:</b>	24 Vdc through 15 Kohm resistor (~ 1.5 mA maximum)

### Wiring Diagram

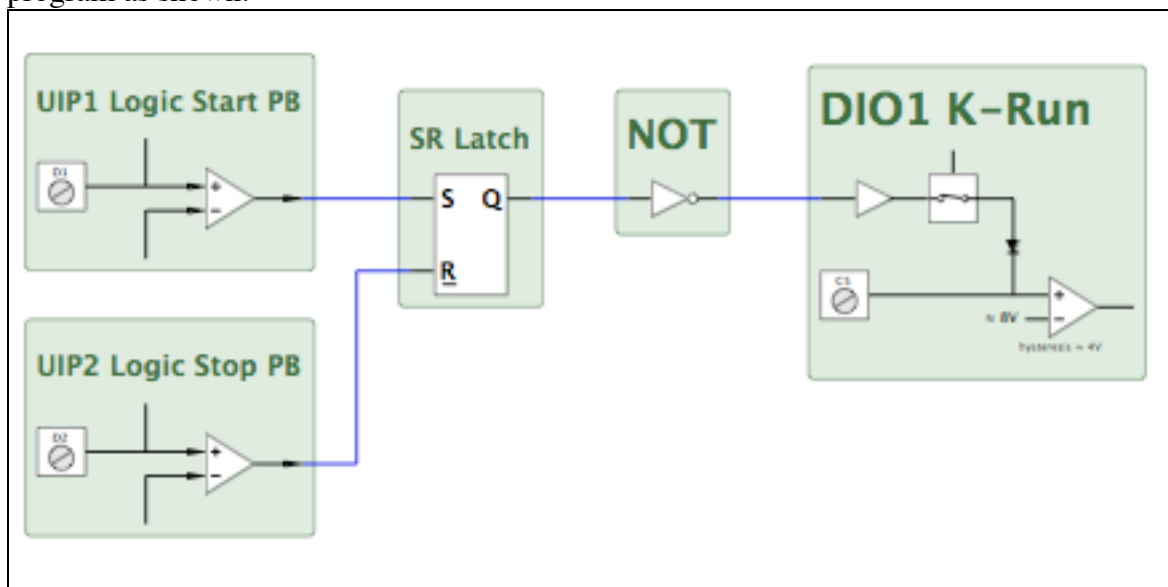
On the K-Series drive, the control inputs are active-low for the PB+ (T7), PB- (T8), and RUN (T9) control functions. Typically, all the DIO features of the **smarty-k** will be configured as outputs and wired according to the following diagram:



However, if additional inputs are required, the DIO may each be individually configured in any combination inputs/outputs.

### Special Programming Requirements

Due to the output circuit's design, an inverter is required when using positive-logic in the smarty program as shown:



In this example, when the SR Latch's output is TRUE, the DIO will indicate FALSE, and the K-Series drive will be in a RUN mode.