Talon SRX Specs:

- Vin-high = 2.64V
- Vin-Low = 0.66V
- default logic sense is H=Motor Run, but can be reversed in talon software
- Internal pullup to 2.5V (??? seems low), so external pullup not needed, supposedly.
- Vin maximum is 5V

Omron EE-SPY415 Specs:

- This is max extension sensor
- Sensor detects the **absence** of the scaler tube.
- With scaler retracted, logic output is Low
- With scaler fully extended, logic output is High
- Vout-Low = 0.4v max
- Vout-High = open-collector
- lout-Low = rated load is 1K min pullup

Optek OPB815 Specs:

- This is fully retracted sensor
- Sensor detects a flag at full retraction
- With scaler retracted and flag detected, logic output is High
- With scaler extended and no flag detected, logic output is Low
- Vout-Low = 0.4v max
- Vout-High = open-collector
- lout-Low = 3.5mA max (with emitter current of 20mA)

Logic Sense:

- Both sensors are logic Low for normal motor running.
- Both sensors are logic high for limit-reached to stop motors
- So Talon SRX Limit Switch logic sense should be reversed in software for both limit switch inputs to be Normally Low for motor run and logic High for motor stop.

Electrical Interface:

- No interface circuit required. Direct connection to Talon Limit Switch inputs.
- Logic low levels are compatible (sensors are lower than Talon requirement)
- Logic high of sensors are open-collector and can be directly connected to Talon, which provides internal pullup.