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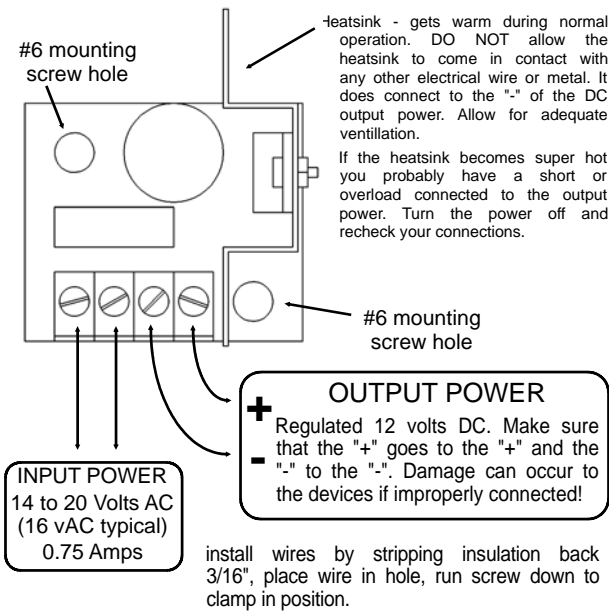
Block Detection / Signaling Starter Package

This package includes 3 Trak-DT's (item 365) and one 12VPS (item 369), 12 volt DC regulated power supply. Drawings are included for basic two and three aspect signaling as well as the individual basic wiring instructions for each component. Other examples of operation are included. For more drawings utilizing our signaling family of components, please reference our Model Railroaders Wiring Guide.

The 12VPS requires a nominal 16 volts AC input power which can be obtained from many different power transformers or from our wall power transformer item 690 or 990. Either of these power sources is capable of powering many 12VPS units. One 12VPS is capable of powering more than 12 Trak-DT's or similar items in our Trak-DT family of detectors. As seen on the next page, a wide range of input voltages are acceptable as input to the 12VPS. We always suggest utilizing a power transformer that is not powering the trains to avoid the possibility of noise (high voltage) kicking back from the operation of the trains into the 12VPS.

12VPS

12 VOLT / 0.5 Amp
REGULATED POWER SUPPLY # 369



Individual item instruction page

TRAK-DT

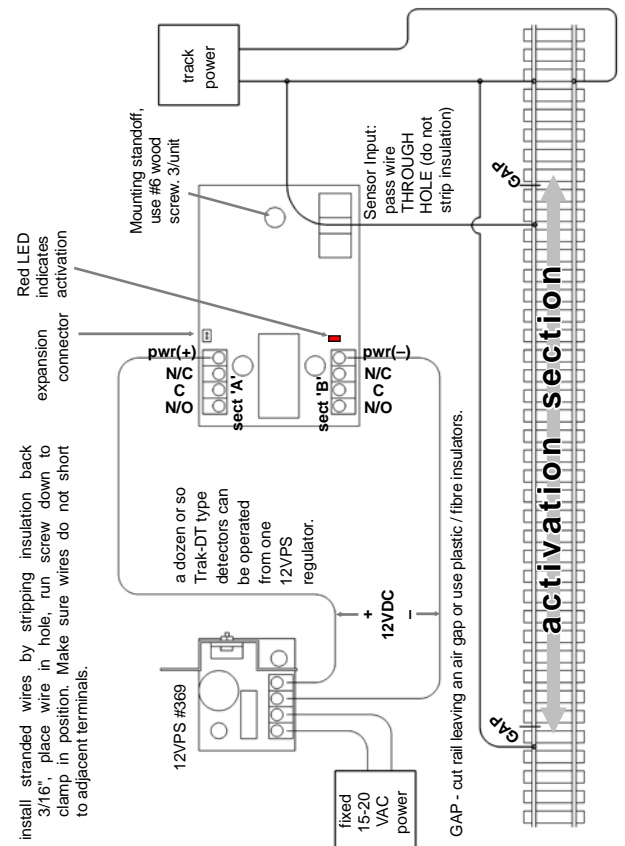
The TRAK-DT is equipped with a Double Pole Double Throw (DPDT) relay capable of carrying 5 amperes of current on each pole. One pole is located with the "+" DC input power strip, the other is with the "-" DC input power strip. #365

- N/O - NORMALLY OPEN - connects to the COMMON ("C") when current is flowing to the SIGNALLED SECTION
- C - COMMON - meaning it connects to either the NORMALLY CLOSED or NORMALLY OPEN, depending on the TRAK-DT being activated or not.
- N/C - NORMALLY CLOSED - connects to the COMMON ("C") when current is not flowing to the SIGNALLED SECTION

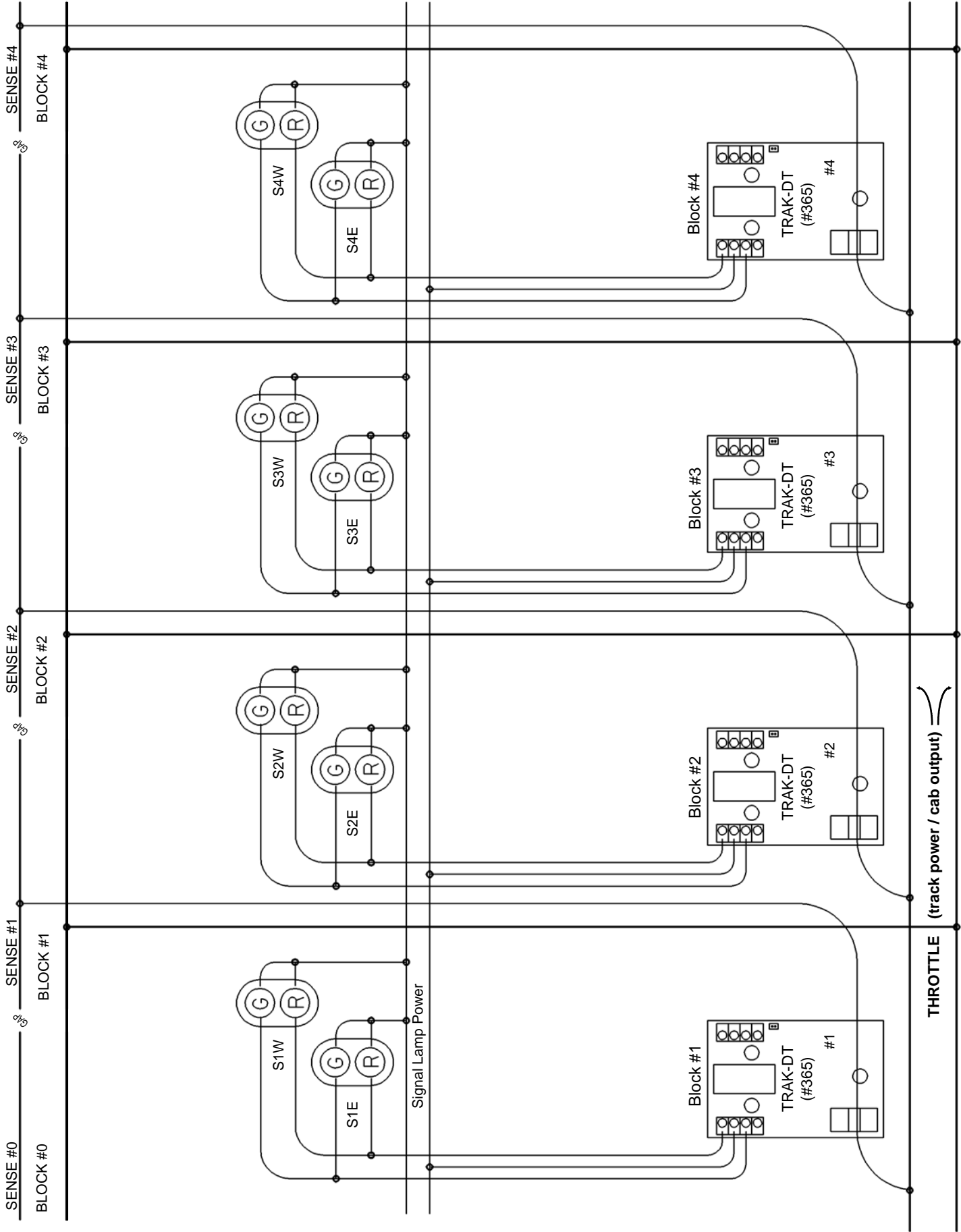
DC input power must come from a regulated 12 volt DC power source, any other input can damage the TRAK-DT. You MUST connect the "+" and "-" terminals correctly. It is best advised to do your connections before applying any power to either your track or accessories.

The EXPANSION CONNECTOR is designed to take the expansion board #555. By connecting the expansion board you double the number of contacts available for block occupancy indications. One example of this is when three aspect signals and power routing is desired using one TRAK-DT. If an LED indicator is desired: connect the anode to the "+", connect the cathode to a 1k resistor, then connect the other end of the resistor to the "-" of the expansion connector. When connecting multiple TRAK-DT's with LED panel mount indicators, you may find it easier to connect all of the LED anodes to the "+" of the 12VPS thus requiring only one wire connecting from the resistor to the TRAK-DT. This will slightly reduce the total number of devices that the 12VPS can power. Current consumption is additive. Each Trak-DT consumes approximately 2 milliamps at idle, 40 milliamps activated.

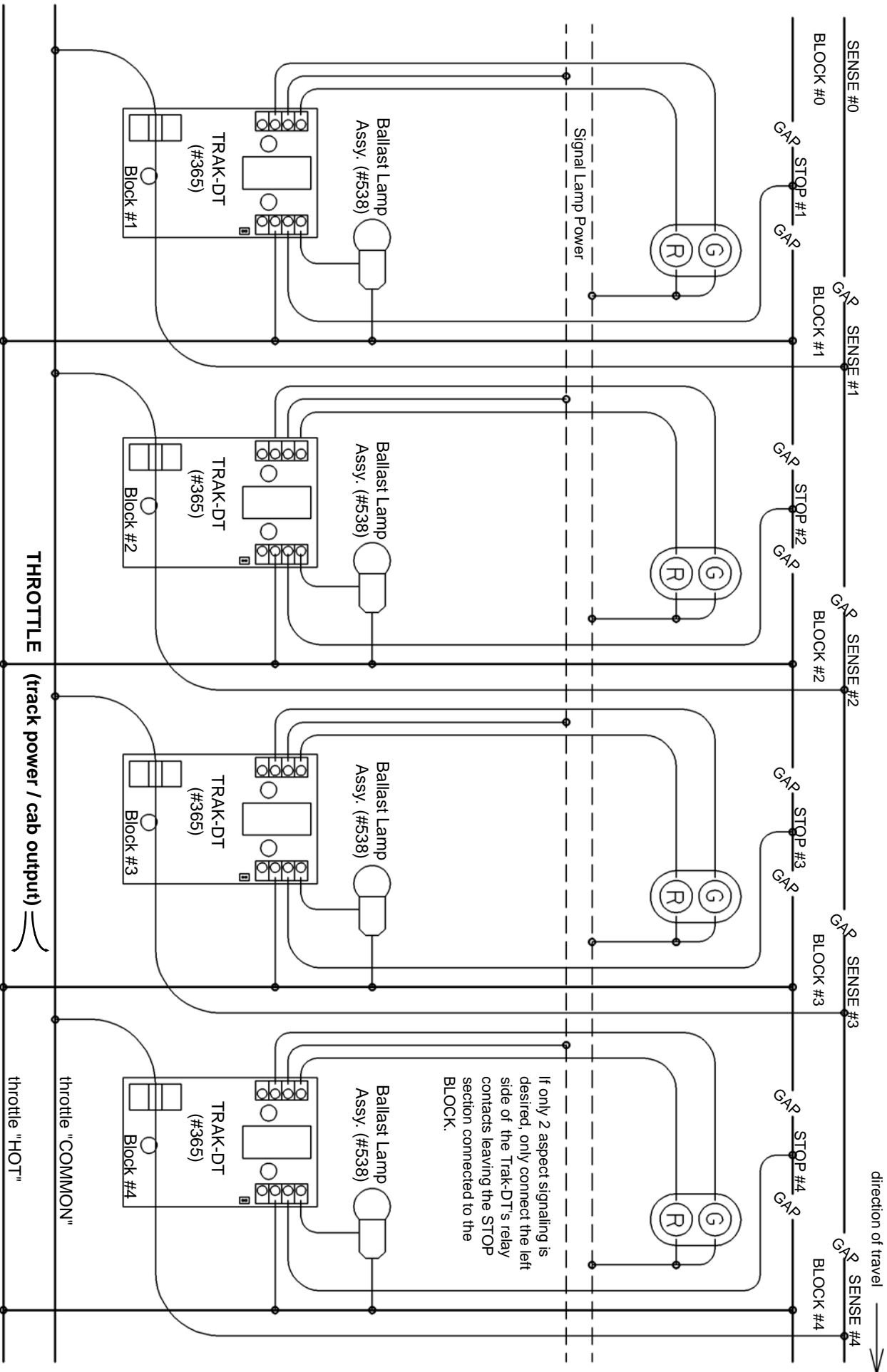
For more in depth wiring please reference our Model Railroaders Wiring Guide.



TWO ASPECT SIGNALS for East / West automation



TWO ASPECT SIGNALS with stop block for automation

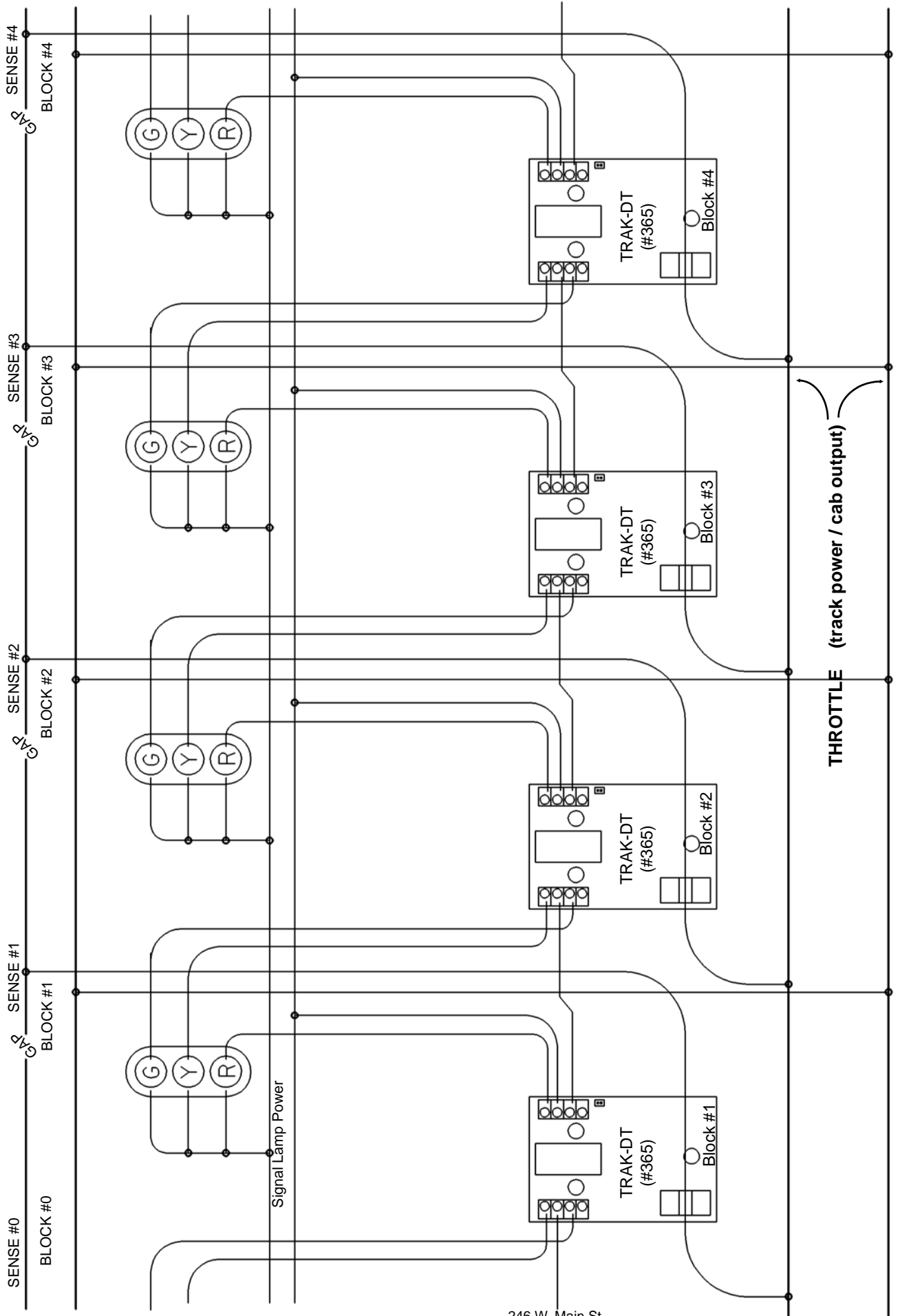


If only 2 aspect signaling is desired, only connect the left side of the Trak-DT's relay contacts leaving the STOP section connected to the BLOCK.

GAP - air space between rails, a plastic insulator may be used.

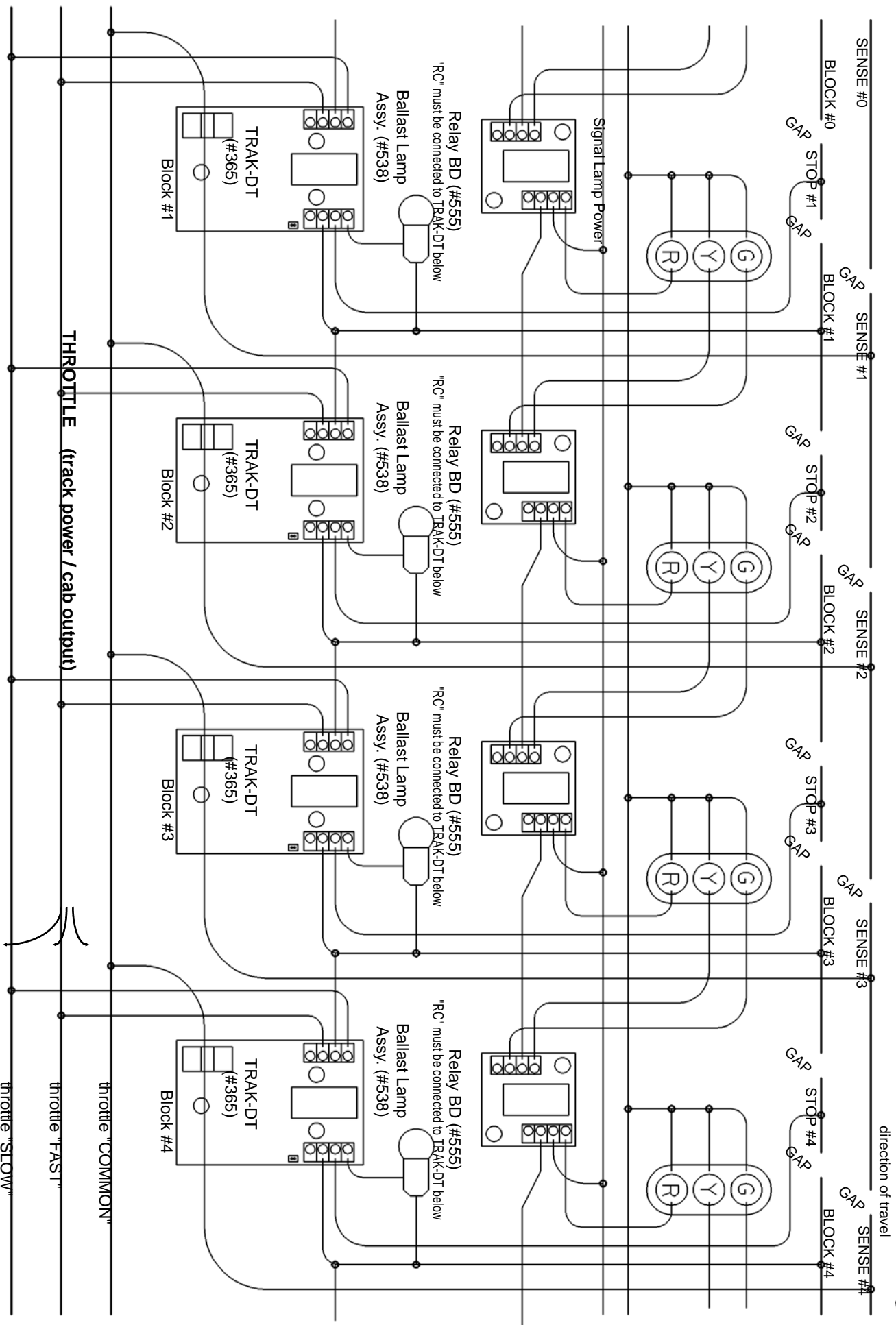
All TRAK-DT's need to be connected to the 12VPS "+" and "-" accordingly for proper operating power.

THREE ASPECT SIGNALS



GAP - air space between rails, a plastic insulator may be used. All TRAK-DT's need to be connected to the 12VPS "+ and "-" accordingly for proper operating power.

THREE ASPECT SIGNALS with stop block for automation



GAP - air space between rails, a plastic insulator may be used.

All TRAK-DT's need to be connected to the 12VPS "+" and "-" accordingly for proper operating power.