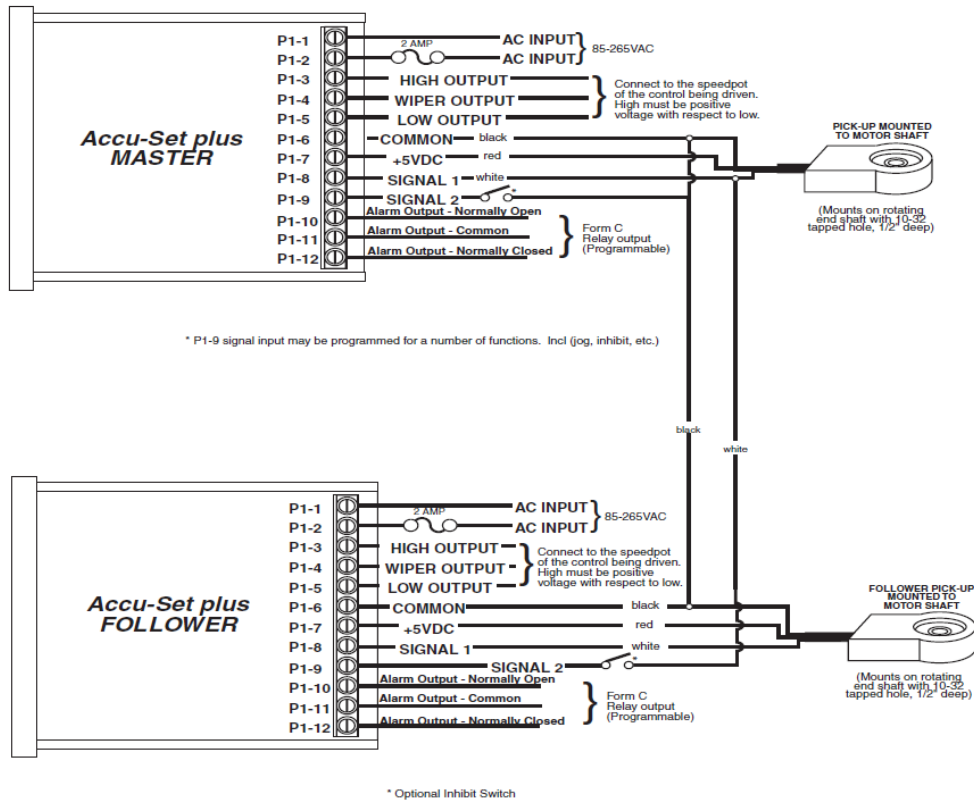


P1 Terminal Block Hook-Up Diagrams

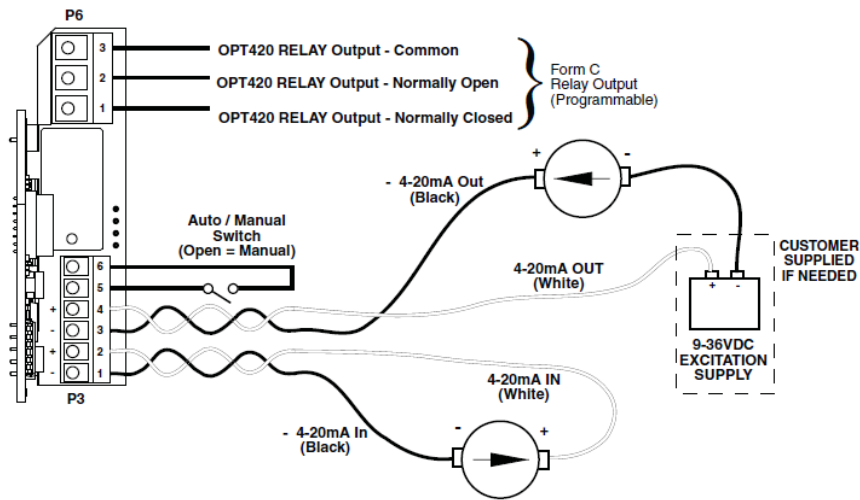


NOTE: Speed Pickups shown above are not required for Open-Loop operation.

ASP40 P1 Terminal Block Descriptions

- P1-1 (AC / N) – For single phase AC lines connect the Neutral side of your AC line to this terminal. For systems with two hot AC lines, connect either of the Hot AC lines to this terminal.
- P1-2 (AC / L) – For single phase AC lines connect the Hot side of your AC line to this terminal. For systems with two hot AC lines, connect either of the Hot AC lines to this terminal.
- P1-3 (HI) - This is the POT HI reference terminal. This terminal must be connected to the most positive speed pot input terminal of the "partner" Drive. This terminal will generally be referred to as Pot HI or +V for positive supplies and Com for negative supplies.
- P1-4 (WP) - This is the Wiper output terminal. This terminal will output an analog voltage signal proportional to the reference voltages connected to P1-3 (HI) and P1-5 (LO). This terminal should be connected to the wiper or signal input of the partner Drive.
- P1-5 (LO) - This is the POT LO reference terminal. This terminal must be connected to the most negative speed pot input terminal of the partner Drive. This terminal will generally be referred to as Pot LO or Com for positive supplies and -V for negative supplies.
- P1-6 (COM) – This is the common point for the control logic. The speed sensor common lead as well as any other source needing to reference the control common will be connected to this terminal.
- P1-7 (+5V) – This is a self-contained +5VDC power supply capable of up to 50mA. The speed sensor supply lead can be connected to this terminal for its power source.
- P1-8 (S1) – This is the signal input terminal for the motor's digital pickup or encoder (Closed-Loop only). This signal is internally "pulled-up" to +5VDC via a 2.2K ohm resistor.
- P1-9 (S2) – This input can be programmed to perform a number of advanced functions. In Follower Mode, this input is the signal input terminal for the master's digital pickup or encoder. In Master modes (Rate and Time), this input can be configured to function as an emergency stop, inhibit, or jog command. This signal is internally "pulled-up" to +5VDC via a 2.2K ohm resistor.
- P1-10 (1NO) – This is the normally-open contact of the user assignable relay output.
- P1-11 (1C) – This is the common contact of the user assignable relay.
- P1-12 (1NC) – This is the normally-closed contact of the user assignable relay output.

OPT 420 HOOK-UP DIAGRAM (TYPICAL)



OPT420 P3 Terminal Block Descriptions

- P3-1 (- 4-20mA Input) – Connect this terminal to the next 4-20mA device in the loop, or, if the OPT420 is the last device in the current loop, then connect this terminal to the - (negative) side of the current loop.
- P3-2 (+ 4-20mA Input) – Connect this terminal to the previous 4-20mA device in the loop, or, if the OPT420 is the first device in the current loop, then connect this terminal to the + (positive) side of the current loop.
- P3-3 (- 4-20mA Output) – Connect this terminal to the next 4-20mA device in the loop, or, if the OPT420 is the last device in the current loop, then connect this terminal to the - (negative) side of the current loop.
- P3-4 (+ 4-20mA Output) – Connect this terminal to the previous 4-20mA device in the loop, or, if the OPT420 is the first device in the current loop, then connect this terminal to the + (positive) side of the current loop.
- P3-5 (S1 Input) – Connect this terminal to one side of a SPST switch to control Auto/Manual Operation. If switch is OPEN (or unconnected), Host Drive's Target Speed will come from its Target Speed setting (as usual), if the switch is CLOSED, Host Drive's Target Speed will follow the OPT420 4-20mA Current Loop Input. This signal is internally "pulled-up" via a 15K ohm resistor.
- P3-6 (COM) – This is the common point for the control logic. Normally, the other side of the SPST Auto/Manual switch would be connected to this terminal. **Note that this means that the Auto/Manual switch is NOT "isolated".**

OPT420 P6 Terminal Block Descriptions

- P6-1 (NC) – This is the normally-closed contact of the user-assignable OPT420 Alarm 1 relay.
- P6-2 (NO) – This is the normally-open contact of the user-assignable OPT420 Alarm 1 relay.
- P6-3 (C) – This is the common contact of the user-assignable OPT420 Alarm 1 relay.