3.4 Electrical connections

3.4.1 Introduction

Use a suitable connector mating half (not supplied) to connect the electrical supplies and your control equipment to the connector on the logic interface cable (Figure 1, item 3). When you make the electrical connections to the EXDC described in the following sections, refer to Table 1 for full details of the logic interface connections and to Figure 3 for a schematic diagram of the connections.

Table 1 - Logic interface connector pins

Pin number	Signal	Polarity	Use
2	Control/monitor: 0V	-	
3	Start/Stop control input	-	Close* to start EXT pump.
4	Controller identity	-	Linked to pin 2 indicates 24 V EXDC.
9	Pump speed analogue output	Positive	
15	TMP Normal status output	-	Closed* when EXT pump speed is 80% or more of full rotational speed.
10,12	Earth (ground)	-	
8,13,14	Electrical supply: 0 V	-	
1,6,11	Electrical supply: 24 V	Positive	

** With respect to pin 2*

3.4.2 Connect the logic interface to your control equipment

1. Connect your control equipment to the start / stop control input pins of your logic interface mating half to start/stop the EXT pump as required:
   - Link (close) the start / stop control input (pin 3) to pin 2 to start the EXT pump.
   - Unlink (open) the start / stop control input (pin 3) from pin 2 to stop the EXT pump.
2. Connect your control equipment to the pump speed analogue output (pin 9) and to pin 2 of your logic interface mating half to monitor the speed output of the EXDC.
3. Connect your control equipment to the TMP normal status output (pin 15) and to pin 2 of your logic interface mating half. You can use the output to control other devices in your pumping system. The output can drive a low power relay of up to 24 V coil rating.