

5703/1 INSTALLATION

The 5703/1 unit provides the facility to run a line of drives in speed-lock. For accurate speed holding, encoder feedback is required. Speed-locking is supported using a direct, ratio, ramped etc. signal.



A 16-bit signal is passed between the drives using a fibre optic link connected to the P3 port on each drive. The P3 port operates at RS232 compatible signal levels. The 5703/1 unit converts the signal into a fibre optic signal for transmission, and when receiving converts the optical signal to RS232 signal.

The 5703/1 is simply an electric signal-to-light converter and does not alter the signal in any way.

Hardware Description

The 5703/1 is intended for DIN rail mounting. It operates using a +24V dc supply. A 400mm long cable is provided to connect in to the drive's P3 port (this fixed, maximum cable length limits any transmission errors).

Each unit is fitted with one fibre optic receiver and two fibre optic transmitters:

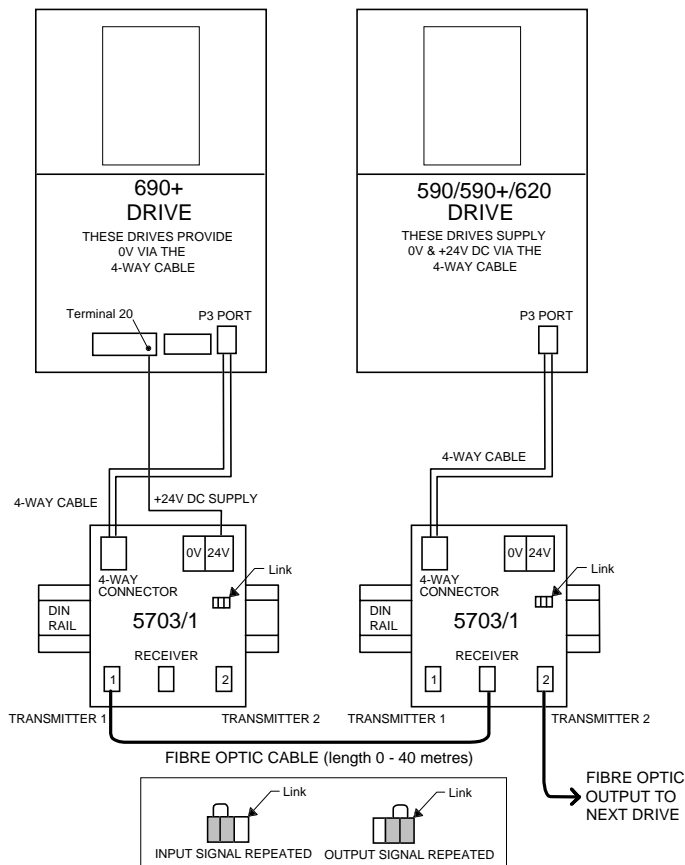
- the *Receiver* accepts data from the preceding unit
- *Transmitter 1* sends data to the following unit
- *Transmitter 2* can be selected to send either the incoming signal, or to repeat the output signal

The P3 port must be configured for 5703/1 support on each drive. Use the MMI, or a suitable programming tool. Refer to the (Software) Product Manual: "Programming Your Application".

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The Baud Rate on the Master & the Slave drive must be the same

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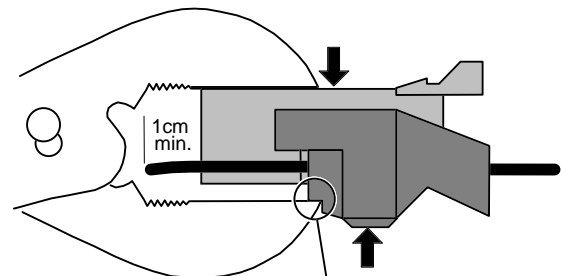


5703/1 Wiring Diagram

Fibre Optic Connection

The plastic fibre optic cable is terminated using a plug and socket arrangement. The plug is fitted to the fibre optic cable and then inserted in to the body of the fibre optic transmitter/receiver (socket).

No fibre preparation is necessary. Insert the fibre in to the connector rebate. The fibre should protrude through the housing a minimum of 1cm. Squeeze the clamp using pliers until the two halves are as one.



CAUTION: Bottom plier jaw **MUST** be seated on the recessed step of connector as shown

Fibre Optic Terminations

A fibre optic cable cutting kit (SSD Drives part number LA385204) prepares the cable ends precisely. Insert the cable complete with sheath into the cutting block. For optimum results, the cable should pass through both sides of the block.

