

PVD 3642-EN (5703-2)

Supporting Title - e.g. software version

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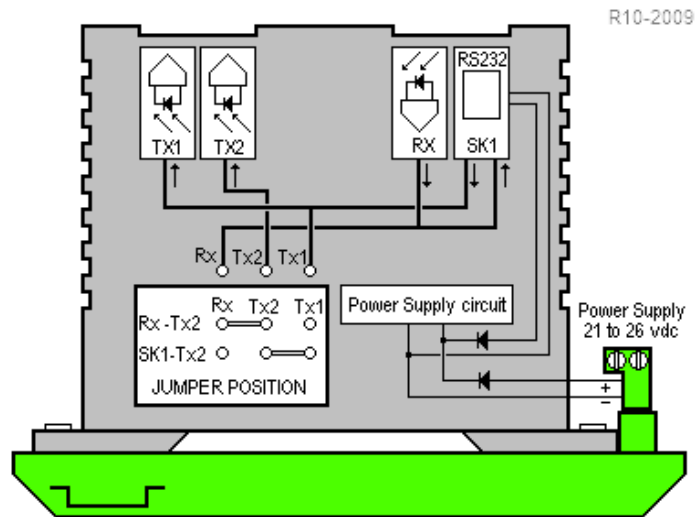
5703-2 INSTALLATION

Description :

The **5703-2** unit provides the facility to run a line of drives in speed-lock. For accurate speed holding, encoder feedback is required.

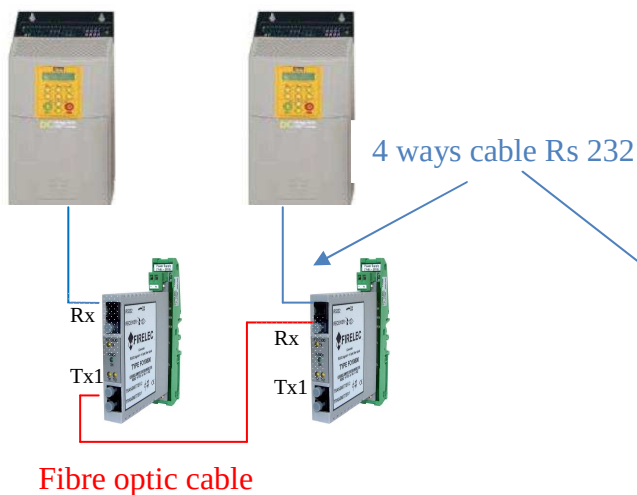
The 5703-2 unit converts the signal into a fibre optic signal for transmission and when receiving converts the optical signal to RS232 signal.

The 5703-2 is simply an electric signal to light converter and does not alter the signal in any way.

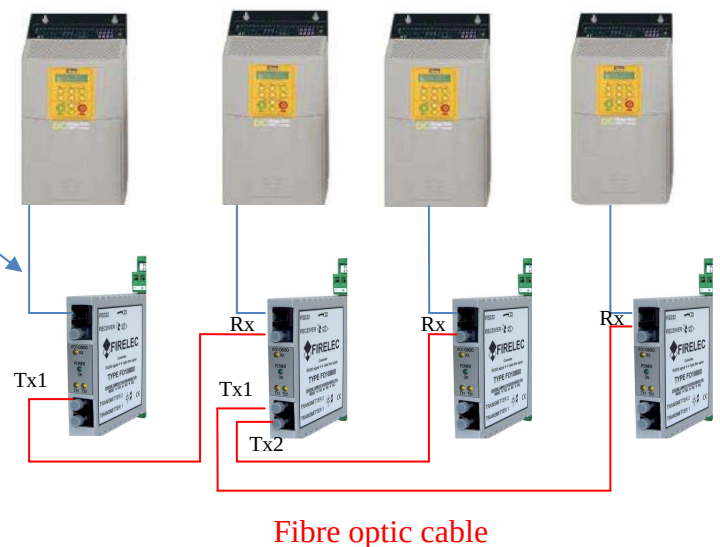


5703/2 Wiring Diagram :

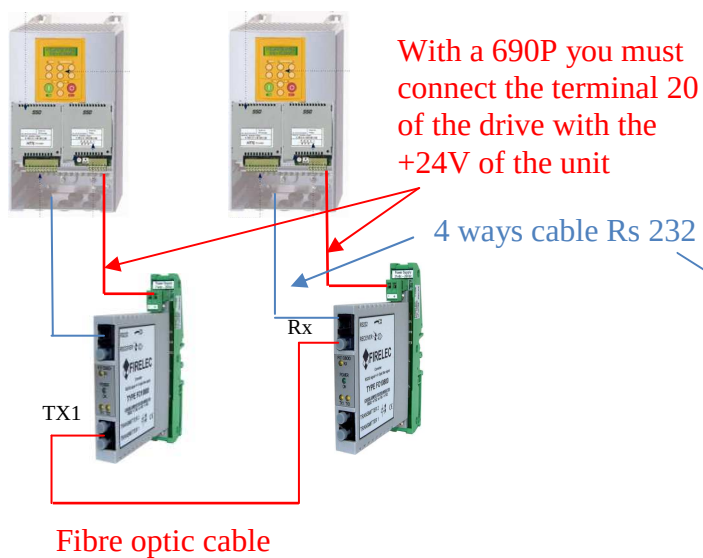
Example for two drives (590P)



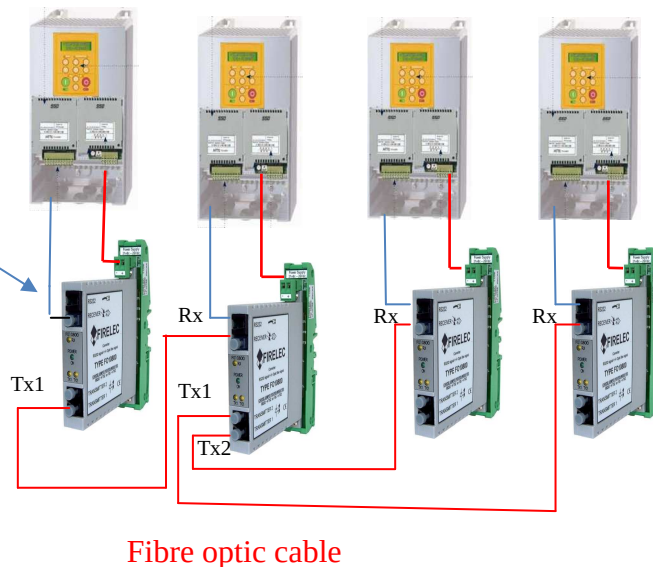
Example for more than two drives (590P)



Example for two drives (690P)



Example for more than two drives (690P)



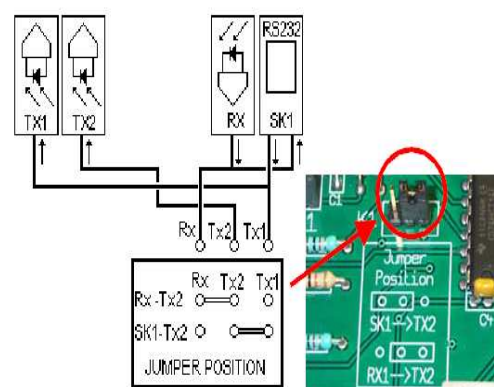
Configuration

The jumper position determines the signal transmitted by TX2.

Two cases :

- When the jumper connects Pin1 and 2 , TX2 re-transmits the input received from RX.
- When the jumper connects Pin2 and 3, TX2 transmits the same signal as TX1.

The signal between SK1 and TX1 is not configurable



5703-2 HARDWARE DESCRIPTION

The 5703-2 is intended for DIN rail mounting . It operates using a +24V dc supply.

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

- . The Receiver accepts data from the precedent 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 support on each drive.

Use the MMI , or a suitable programming tool.

Refer to the (software) Product Manual: “Programming Your Application”.

Mechanic

Level of Protection :

IP20

Weight :

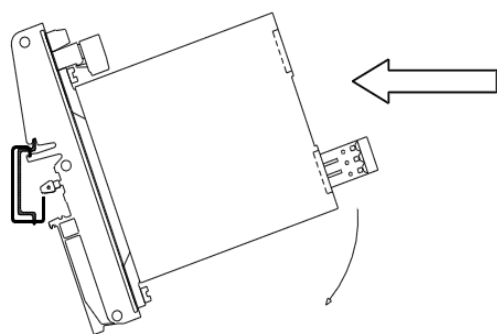
100 gr

Dimension :

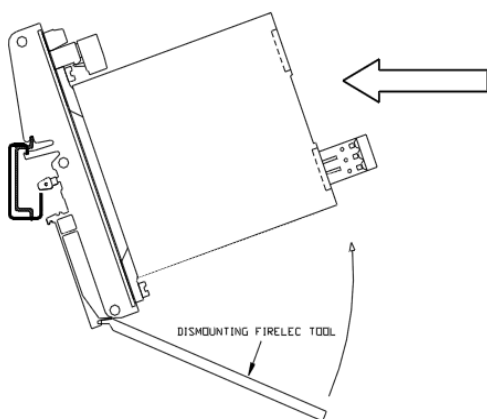
H:127 mm W:22 mm D: 152 mm

Mounting :

Din rail mounting (symmetric and asymmetric)



Mounting of the unit on the rail DIN



Dismounting of the unit on the rail DIN
Push in the direction of the arrow

5703-2 TECHNICAL SPECIFICATIONS

Environmental

Temperature : -10 °C to +60° C
Humidity : 10 to 90% non condensating

Power Supply

Voltage : 21V to 26V dc
Supply : - by the 4 ways cable R232 (1&2) **60 cm MAX**
- by the connector at the bottom of the unit
Module Current: 79 mA max (all the I/O active)
Fuse: 160 mA 250V Fast
Unit is powered: Green Led on front

Electrical Specifications

Type of Connector : RS232 (female) for male connector RJ11
Type of signal : RS232 Bi directional 2400 to 38000 bit/s

Port 5703/2 :

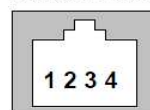


1 : 0V
2 : +24V
3 : RX
4 : TX

Drive Port :

The port is an un-isolated RS232, 19200 Baud, supporting the standard EI BISYNCH ASC communications protocol, contact Eurotherm Drives for further information.

A standard P3 lead is used to connect to the Converter.



P3 Port Pin	Lead	Signal
1	Black	0V
2	Red	24V
3	Green	TX
4	Yellow	RX

Optical specifications

Connector type : Fast less crimping Serial:HFBR453X(HP)
Number of connector : 3 connectors (1 input, 2 outputs) see configuration
Wavelength of signal : 660 nm (Red visible)
Length of fibre between two module : 40 centimeters to 25 meters