



Ibex Stage Connections

A. Nanomotion Motor Connections

Pin	Name	Function	Description
1	GND	Ground	Safety Input; shorted to pin 6 in order to verify the motor connection and to prevent driver operation without the motor.
2	--	N.C.	
3	Motor_White	High Voltage Output	Connected to the white motor terminal
4	Motor_Black	High Voltage Output	Connected to the black motor terminal
5	Motor_Red	High Voltage Output	Connected to the red motor terminal
6	Motor Connected	Input	Safety input; shorted to pin 1 in order to verify the motor connection and to prevent driver operation without the motor.
7	GND	Power Supply Ground	Shorted to shield
8	--	N.C.	
9	--	N.C.	

B. Renishaw Encoder Connector Pinout

Function	Signal	Colour	15 pin 'D' type (D)
Power	5 V	Brown	7,8
	0 V	White	2,9
Incremental Signals	A	+	Green 14
		-	Yellow 6
	B	+	Blue 13
		-	Red 5
Reference Mark	Z+	Pink 12	
	Z-	Grey 4	
Shield	Inner	Inner Shield 15	
	Outer	Outer Shield Case	