

Wiring diagram for encoder - Mitsubishi inverter

DP9 - Female connects from spindle encoder to Mitsubishi inverter

Pin 1= 5V -5vdc	Red
Pin 2= SG- 5vdc common	Red \ Black
Pin 3= PB1-CHANNE A+	White
Pin 4= PB2-channel A-	White \ Black
Pin 5= PA1-channel B+	Blue
Pin 6= PA2- channel B-	Blue\ Black
Pin 7= PC1-Channel Z+	Green
Pin 8= PC2-channel Z-	Green\ Black

DP9 - Male connects from SD3 or console axis 5 to Mitsubishi inverter

Pin 1 = none	
Pin 2 = SG-5vdc common	Red / Black
Pin 3 = PC2-channel Z-	Green / Black
Pin 4 = PB2-channel A-	White / Black
Pin 5 = PA2-channel B-	Blue / Black
Pin 6 = PC1-channel Z+	Green
Pin 7 = PB1-channel A+	White
Pin 8 = PA1-channel B+	Blue
Pin 9 = 5V-5vdc	Red

Inverter control cable from RTK3 to Mitsubishi inverter

Top	Mitsubishi inverter
1. Green = Reset / out 15	RES reset input
2. Blue = output 10,14,15 common	SD
3. Grey = orient/ out 10	RH Orient command input
4. and 5. jumper	
6. White = spin fwd/out 13 NC	STF
7. Black = spin rev /out 13 NO	STR
8. Brown = analog out	2 (0-10 vdc)
9. Violent = analog common	5 (0-10vdc common)
10. Light green = zero speed/in 19	RUN zero speed output
11. Red = Orient complete/in 21	FU orient complete output
12. Orange = fault in 25	A fault output N/O
13. Pink = at speed/in 20	SU
14. Yellow = input common	C-SE utput common
15. Ground = shield	Ground