

2.9.3.3. Signal List (CN2 and CN5: B5 and 25 type Driver Units)

Table 2-21: CN2 **Connection key for our DSUB-25-M-5M I/O cable set**

Color Code	Pin	Signal Name	I/O	Function
Orange	1	COM	Output	Output COMMON
Blue-White	2	DRDY-	Output	Driver Unit ready (-)
Green	3	BRK /BRKC* ³	Output	Brake / Brake control signal (normally closed)
Green-White	4	*CHZ* ¹	Output	Position feedback signal *øZ / Digital position signal *MSB* ¹
Red-White	5	CHB	Output	Position feedback signal øB
Red	6	CHA	Output	Position feedback signal øA
Black-White	7	CCWP+	Input	Counterclockwise pulse train (+) (CCW)
White-Red/Black	8	CWP+	Input	Clockwise pulse train (+) (CW)
Red-White/Black	9	OTP	Input	Over travel limit switch (+) direction (clockwise)
Orange-Black	10	CLR	Input	Clear input
Orange-Green	11	HLS	Input	Home position limit sensor
Black-Red/White	12	EMST	Input	Emergency stop
Green-Black	13	DC24	Input	24 VDC external power supply
Blue	14	IPOS	Output	In position (positioning completed)
White	15	DRDY+	Output	Driver Unit ready (+)
White-Red	16	SGND	-	Signal ground
Orange-Red	17	CHZ* ¹	Output	Position feedback signal *øZ / Digital position signal *MSB* ¹
White-Black	18	*CHB	Output	Position feedback signal øB
Blue-Red	19	*CHA	Output	Position feedback signal øA
Black-Red	20	CCWP-	Input	Counter clockwise pulse train (-) (CCW)
Black	21	CWP-	Input	Clockwise pulse train (-) (CW)
Green-Black/White	22	OTM	Input	Over travel limit switch (-) (CCW)
Blue-Black	23	HOS	Input	Home Return start
Red-Green	24	IOFF* ² /CLCN* ³	Input	IOFF* ² : Integration off / Lower gain* ¹ CLCN* ³ : Brake-off
Red-Black	25	SVON	Input	Servo ON

*1. The parameter FZ (RS-232C communication) selects either “Position feedback signal øZ” or “Digital position signal MSB.” The shipping set is “Position feedback signal øZ.”

*2. Parameter IM (RS-232C communication) selects “Integration off” or “Lower gain.” The shipping set “Integration off.”

*3. When using a Motor equipped with brake, you may set the BRK signal to the BRKC signal, and IOFF signal to CLCN signal by activating the brake sequence function (BF1).

Table 2-23: CN5 Connection key for our DSUB-37-M-5M I/O cable set

Color Code	Pin	Signal Name	I/O	Function
Orange	1	COM	Output	Output COMMON
Blue-White	2	OVER	Output	Warning
Green	3	NEARA* ¹	Output	Target proximity A /In target A* ¹
Green-White	4	NEARB* ¹	Output	Target proximity B / In target B* ¹
	5	–	–	Never connect!
	6	–	–	Never connect!
Red-White	7	AIN–	Input	Analog command input (–)
Red	8	AIN+	Input	Analog command input (+)
	9	–	–	Never connect!
	10	–	–	Never connect!
Black-White	11	PRG0	Input	Internal program channel selection 0
White-Red/Black	12	PRG1	Input	Internal program channel selection 1
Red-White/Black	13	PRG2	Input	Internal program channel selection 2
Orange-Black	14	PRG3	Input	Internal program channel selection 3
Orange-Green	15	PRG4	Input	Internal program channel selection 4
Black-Red/White	16	PRG5	Input	Internal program channel selection 5
Green-Black	17	RUN	Input	RUN move
Blue	18	STP	Input	Stop
White	19	DC24	Input	24 VDC external power supply
White-Red	20	SPD	Output	Velocity threshold
Orange-Red	21	HOME* ²	Output	Home Return completed / Home Position detected* ²
White-Black	22	HCMP	Output	Home position defined
	23	–	–	Never connect!
	24	–	–	Never connect!
	25	–	–	Never connect!
Blue-Red	26	MON–	Output	Analog monitor output (–)
Black-Red	27	MON+	Output	Analog monitor output (+)
	28	–	–	Never connect!
	29	–	–	Never connect!
Black	30	JOG	Input	Jog
Green-Black/White	31	DIR	Input	Jog direction
	32	–	–	Never connect!
	33	–	–	Never connect!
	34	–	–	Never connect!
	35	–	–	Never connect!
Blue-Black	36	INH	Input	Inhibit pulse train input or analog input.
	37	–	–	Never connect!

*1. Select either “Target proximity x” or “In target ” with the parameter NMx (RS-232Ccommunication). The shipping set is “Target proximity x” output.

*2. Select either “Home Return completed” or “Home position detected” with the parameter HW (RS-232C communication). Shipping set is “Home Return completed” output.



Caution: Follow respective specification documents of a custom made Megatorque Motor System whose Input / Output signal settings are unique.