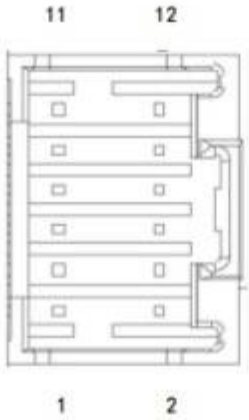
Encoder output port - CN5

The **CN5** port is the encoder output interface of the NL7 servo drive. It makes the encoder feedback signals available to an external controller, PLC, or motion interface — for example when the position information must be shared with a higher-level system or when a second device needs the same encoder signals.

The illustration below shows the CN5 connector with its pin assignment and the signal layout.

Port	Diagram	Pin	Signal	Label
CN5		11	A+	Motor encoder phase A frequency divider output
		12	A-	
		9	B+	Motor encoder phase B frequency divider output
		10	B-	
		7	Z+	Motor encoder phase Z frequency divider output
		8	Z-	
		5	OCZ	Motor encoder Z-signal OC output
		6	GND	Motor encoder Z-signal OF output reference ground
		3	/	/
		4	/	/
		1	PE	Shield grounding
		2	/	/

Wiring notes

- Use a shielded encoder cable and connect the shield at the drive side where required. - Match the signal format and supply voltage to the receiving device (controller, PLC, or motion interface). - The exact pin assignment and signal levels are shown in the connector diagram above; for the detailed pin list refer to the pinout page and the installation manual.

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