

I/O Signal Port - CN1

CN1 connector is a 16-pin spring loaded connector.

Port	Pin	Signal	Description	Remarks	
1	1	EXT1 +	Probe 1 positive terminal	2 high speed probe inputs function	
	2	EXT2 +	Probe 2 positive terminal		
	3	NC	Reserved		
	4	NC	Reserved		
	5	EXT1 -	Probe 1 negative terminal		
	6	EXT2 -	Probe 2 negative terminal		
	7	DICOM	Common DI		
	9	DI1	Reserved		
	11	DI2	POT: Positive limit switch		
	13	DI3	NOT: Negative limit switch		
15	15	DI4	HOME: Homing done	Double-ended common DI Configurable Recommended voltage: 12VDC - 24VDC	
	8	D01	ALM: Alarm		
	10	D02	BRK-OFF: Holding brake activated		
	12	D03 +	INP: Positioning completed		
	14	D03 -			
	16	DOCOM	Common DO	D01,D02: Single-ended D03: Double-ended Configurable Recommended voltage: 12Vdc - 24Vdc, max 30V Recommended current: 10mA, max 50mA	

Selection of I/O signal cable

To ensure I/O signal to not be affected by electromagnetic interference, a shielded twisted pair cable is recommended for this application.

- Wire diameter $\geq 0.14\text{mm}^2$, foil shielded should be connected to PE terminal.
- Wire length should be as short as possible, not more than 3m.
- Install a surge suppressor in feedback circuit; flyback diode inversely connected in parallel in DC coil and capacitor connected in parallel in AC coil.
- Recommended wire gauge: 24 - 26AWG
- I/O signal included DI, DO and relay output signal
- Please keep 30cm away from main power supply cable or motor power cable to avoid electromagnetic interference.

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