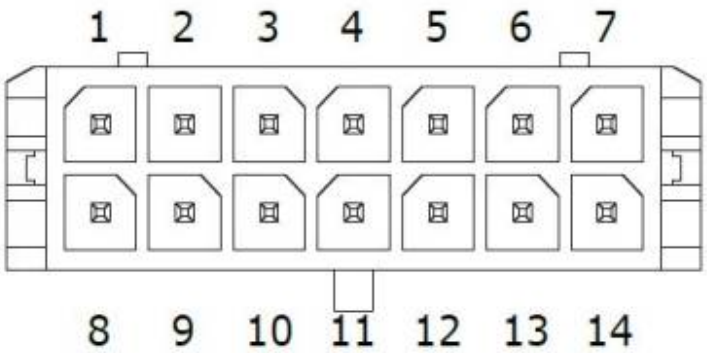
Epulse50 Motor feedback connection

This page describes the **motor feedback connection** of the Epulse50 servo drive. The drive supports several feedback types; the correct connection depends on the motor and the feedback option ordered.

The Epulse50 is able to work with different types of motor feedback:
1. Resolver
2. SIN/COS 1Vpp (1 sine period per 1 shaft rotation)
3. ABZ + Hall
4. Hall only
5. Variable reluctance resolver (on request)
6. Sensorless (on request)

I/O CONNECTOR C1		
PIN	**NOME**	**DESCRIZIONE**
1	HV	Hall sensor V input
2	5V	Otput supply 5V@300mA
3	GND	GND-5V
4	/CHZ	Inverted Z channel encoder input
5	CHZ	Z channel encoder input
6	RES OUT	Resolver sinusoidal output
7	GND	GND-5V
8	HU	Hall sensor U input
9	HW	Hall sensor W input
10	/CHA or /SIN_IN or /RES_SIN	Inverted A channel encoder input or inv. Sinus input or inv. Resolvert sinus input
11	CHA or SIN_IN or RES_SIN	A channel encoder input or Sinus input or Resolvert sinus input
12	/CHB or /COS_IN or /RES_COS	Inverted B channel encoder input or inv. Cosinus input or inv. Resolvert cosinus input
13	CHB or COS_IN or RES_COS	B channel encoder input or Cosinus input or Resolvert cosinus input
14	STM	Motor thermal sensor



C1
Motor Feedback

Port	Ordering Code	Brand	Description
C1	43025-1400	Molex	14 poles male, for motor feedback (Receptacle Housing)

Wiring notes

- Select the feedback type that matches the motor and the application (position accuracy, speed range, resolution). - Use the connector listed above (port C1) with the correct mating connector and pinout. - The feedback signals must be connected according to the pinout page; verify the supply voltage and the signal levels before commissioning.