

Installation Notes:

- Apply 24VDC only to designated Power Input connectors
- Both power inputs are required for motor and control power
- Motors power inputs are shared by two motors
- Control Power is necessary for all logic and communication
- Removable mating connectors are provided with the product for motor power and control power only

Standards and Conformance
CE Marking Directive 93/68/EEC
EMC Directive 2014/30/EU
RoHS Directive 2011/65/EU (RoHS2)
EN 61800-5-1 Safety Requirements for adjustable speed electrical power drive systems
EN 61800-3 Adjustable speed electrical power drive systems - EMC product standard including specific test method



Safety Warning



High-performance motion control equipment is capable of producing rapid movement and very high forces. Unexpected motion may occur especially during the development of controller programs. KEEP WELL CLEAR of any machinery driven by stepper or servo motors. Never touch any part of the equipment while it is in operation.

This product is sold as a motion control component to be installed in a complete system using good engineering practice. Care must be taken to ensure that the product is installed and used in a safe manner according to local safety laws and regulations. In particular, the product must be positioned such that no part is accessible while power may be applied.

This and other information from Parker Hannifin Corporation, its subsidiaries, and authorized distributors provides product or system options for further investigation by users having technical expertise. Before you select or use any product or system, it is important that you analyze all aspects of your application and review the information concerning the product in the current product catalog. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, safety, and warning requirements of the application are met.

If the equipment is used in any manner that does not conform to the instructions given in the user guide, then the protection provided by the equipment may be impaired.

ACR7000 Connection Guide

Multi-Axis Stepper Controller Systems

ACR7xT

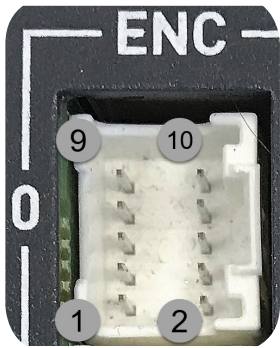


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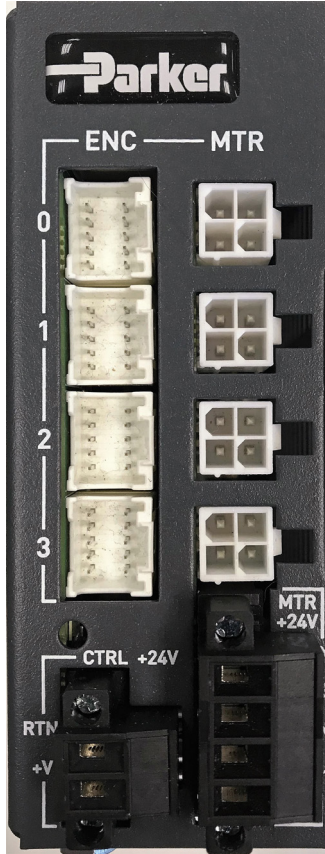


Front View



ENC - Encoder Input Connectors

Pin	Signal
1	A+
2	A-
3	B+
4	B-
5	Z+
6	Z-
7	5V
8	DGND
9	Earth
10	Earth



Status LED

Indicates control power status
Off = no power, Red=booting
Green = Ready



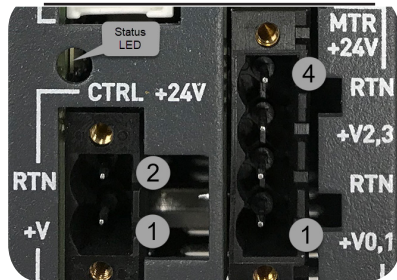
MTR - Motor Output Connectors

Pin	Signal
1	Motor A2 (A-)
2	Motor B2 (B-)
3	Motor A1 (A+)
4	Motor B1 (B+)

Motor Outputs for 2-phase stepper motors only

CTRL - Control Power Input

Pin	Signal
2	GND
1	+24VDC



Mating connectors removed for detail

MTR +24V - Motor Power Input

Pin	Signal
4	GND24V
3	Motor 2/3 +24V
2	GND24V
1	Motor 0/1 +24V



Caution: Before inserting or removing any connectors or wires, always remove ALL power from the unit.

Top View

I/O - 0 Input/Output Connector

Pin	Signal
1	Input 0
2	Input 1
3	Input 2
4	Input 3
5	Input 4
6	Input 5
7	Input 24
8	Input 25
9	Input 26
10	Input 27
11	GND
12	Output 32
13	Output 33
14	Output 34
15	Output 35
16	GND
17	Motion Enable Input
18	GND
19	24VDC - output
20-26	GND



Ethernet

Yellow = Link established
Yellow flashing = Activity
Green = 100Mbps

I/O - 1 Input/Output Connector

Pin	Signal
1	Input 6
2	Input 7
3	Input 8
4	Input 9
5	Input 10
6	Input 11
7	Input 28
8	Input 29
9	Input 30
10	Input 31
11	GND
12	Output 36
13	Output 37
14	Output 38
15	Output 39
16	GND
17	GND
18	GND
19	24VDC - output
20-26	GND

Default IP address 192.168.100.1 is user-configurable in software.

Download **Parker Motion Manager** software to configure and program the controller. www.parkermotion.com/acr7000

The Motion Enable Input MUST be connected to 24VDC in order to enable/power the motors.

NOTE: Motion Enable Input can be used as a part of a circuit to prevent motion and remove power from the motors. Note that if the input is deactivated while in motion, **motors will de-energize immediately without a deceleration ramp.**

