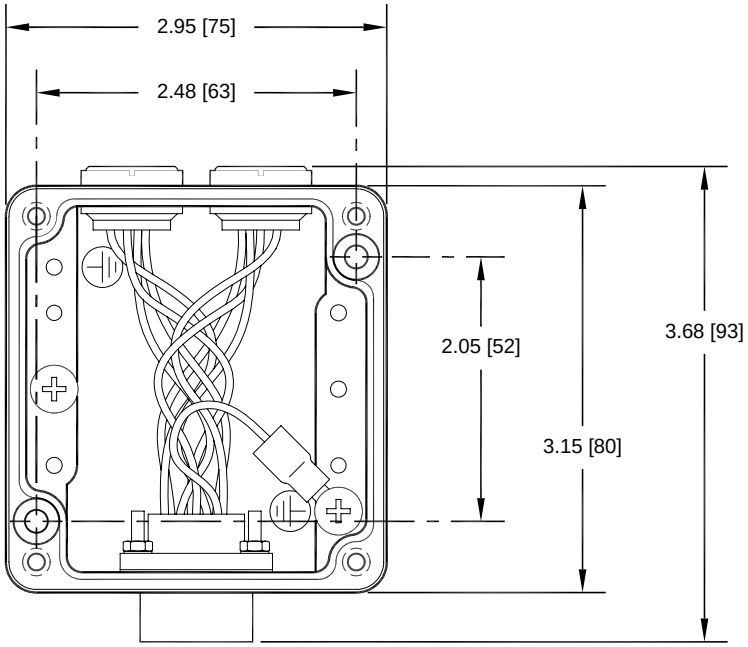
VTB-60
JUNCTION BOX

NOTE: All dimensions and specifications are in inches [mm] unless specified otherwise.



(COVER NOT SHOWN—THIS VIEW IS FOR CLARITY)

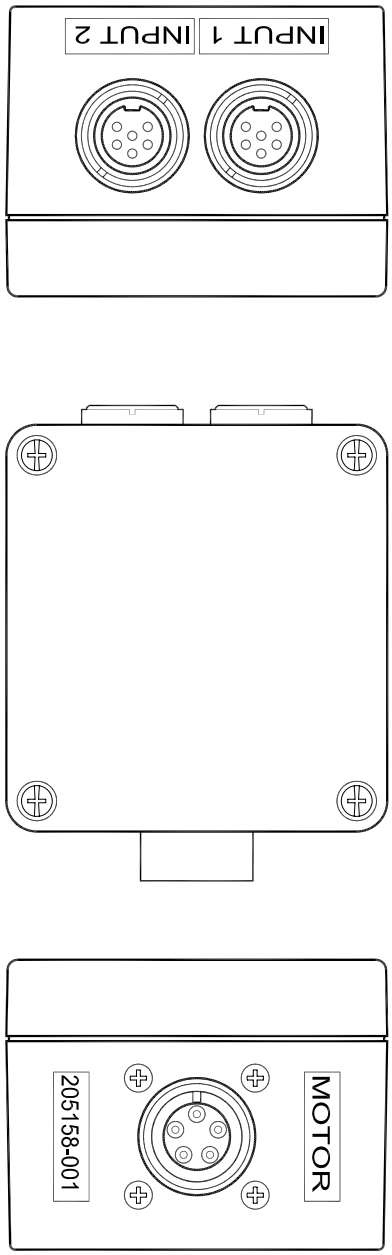


Figure 1.
VTB-60 JUNCTION BOX
INSTALLATION DIMENSIONS

General Information

The VTB-60 Junction Box is used with the D-MAX 2 Dual-drive Controller for high-thrust 8 A actuator electro-mechanical motor applications.

When the VTB-60 is connected to the D-MAX 2 Controller, resistors in the VTB-60 identify the 8 A application to D-MAX 2 Controller. This identification automatically reconfigures the D-MAX 2 Controller to use both of the drive outputs of the controller to drive the 8 A motor with 4 A per drive. The D-MAX 2 Controller appears as a Single-drive unit to the operator interface. Both input cables between the VTB-60 and the D-MAX 2 Controller must be connected for the D-MAX 2 Controller to properly identify the application. If only one of these cables is connected, then the D-MAX 2 Controller considers this as if no motor is connected.

The following components are required to connect a high thrust E-M actuator to a DMAX 2 Controller:

Required Components

D-MAX OI	Basic or Network version
D-MAX 2	Dual-drive Controller
VTB-60 Junction Box	Connects to Drive 1 and Drive 2, and the 8 A actuator
Electro-Mechanical Actuator	AG-11 or AB-12 actuator
Power Suppply	36 V / 480W

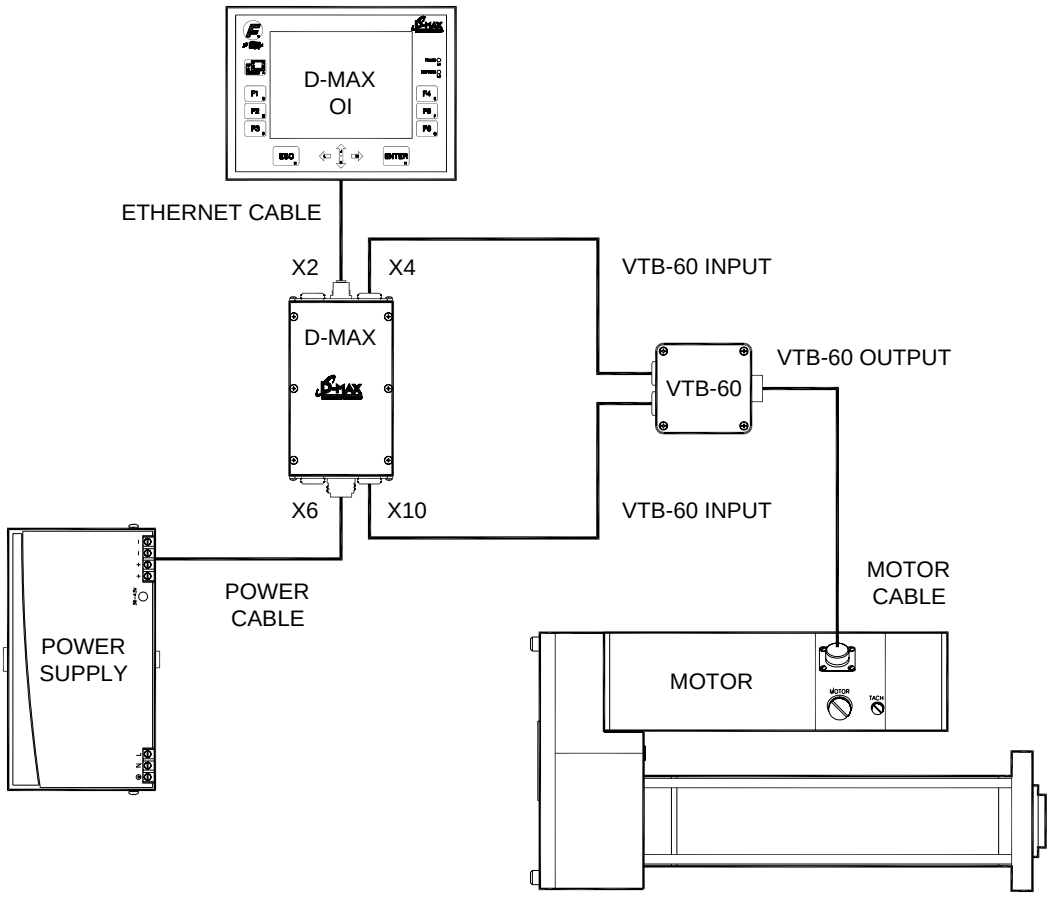


Figure 2.
E-M HIGH THRUST MOTOR/ACTUATOR CABLE CONNNECTION DIAGRAM
(D-MAX 2 Dual Drive with D-MAX OI, 36 V Power Supply, VTB-60 and 8A Motor)

Product Specifications

VTB-60 Junction Box Specifications

Output Side Motor connection

Input Side Input 1 or Input 2 Connects to either drive port (X4 or X10) of a D-MAX 2 Controller

NOTE: Both input cable connections are required.

Housing Protection Class IP-54

Size (Lx W x H) 80 mm x 75 mm x 57 mm

Requirements

Application Requirements

Controller D-MAX 2 Dual-drive Controller

NOTE: The minimum firmware number required is 100522 Rev-007 or above.

Power Supply 36 V / 480 W

NOTE: 36 V / 480 W is recommended

Junction Box VTB-60 Junction Box, P/N 205158-001

Cable, D-Max to VTB-60 Junction Box 5 M [16 FT] Standard, P/N 202986-005
1 M [3 FT] Min
14 M [46 FT] Max

NOTE: Two cables are required

Cable, VTB-60 Junction Box to Motor/Actuator 5 M [16 FT] Standard P/N 83844-002, 15 M [49 FT] Max

NOTE: The combined cable length from the D-MAX controller to the 8 A motor should be limited to 15 M [49 FT] Max. Combined cable lengths greater than 15 M [49 FT] may be used up to 30 M [98 FT] Max, BUT this will have an approximate 10% power loss to the motor.

Operating Temperature Range 0°C to 55°C

NOTE: The D-MAX Controller must be mounted with good thermal contact to a large metal body such as a machine frame.

Supported E-M Servomotors Servomotor, 8 A, P/N 546055-002
Servomotor, 8 A with motor brush spacer, P/N 204520-001

Supported E-M Actuators AG-11 Actuator
AB-12 Actuator

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FIFE CORPORATION

222 W. Memorial Road, Oklahoma City, OK 73114-2317, USA / Post Office Box 26508, Oklahoma City, OK 73126-0508, USA

Phone: 405.755.1600 / 800.639.3433 / Fax: 405.755.8425 / E-mail: fife@fife.com / Web: www.fife.com