

McDonald SD1 Series AutoDRIVE User Guide

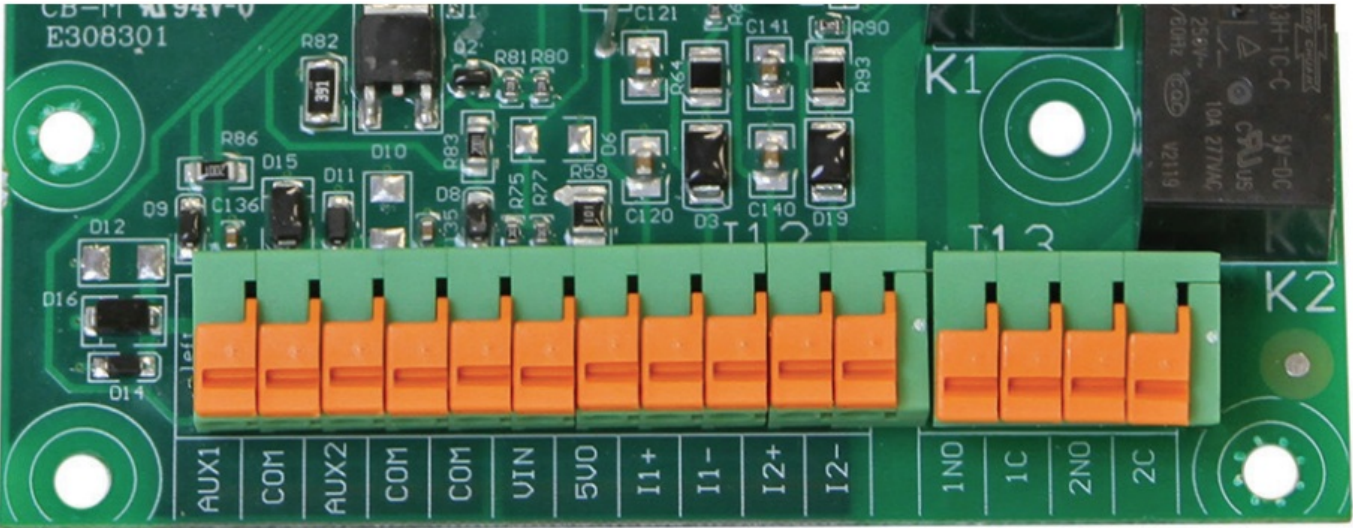
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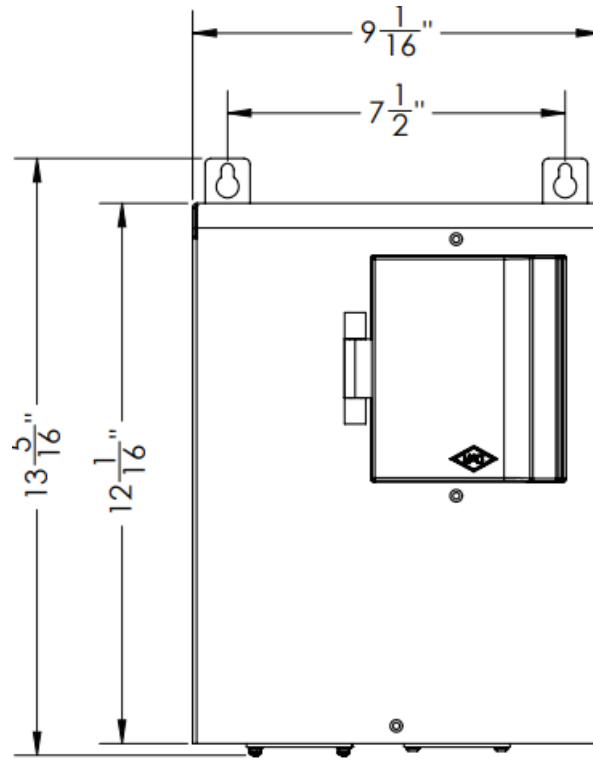
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McDonald SD1 Series AutoDRIVE

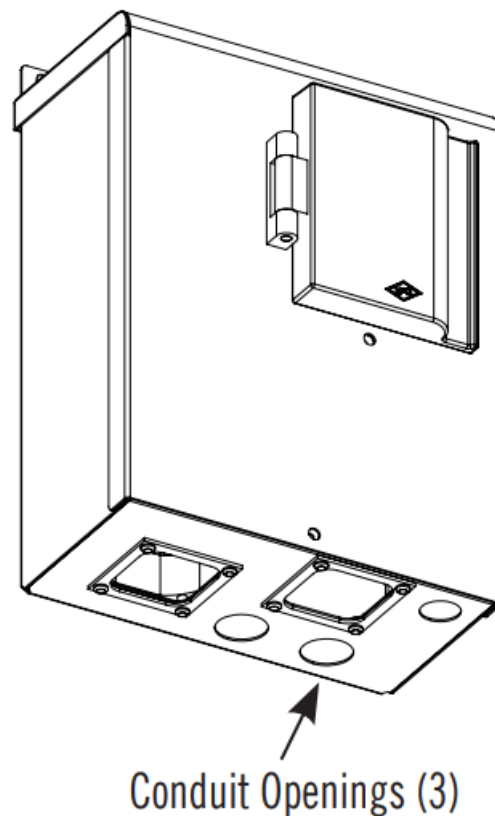


Installation & Mounting



1. Drive must be mounted in an upright position.
2. Minimum of 6" clearance on each side for proper ventilation and the surface around the enclosure should be of non-flammable material and clear of obstacles.
3. The mounting surface must be sturdy and capable of bearing the weight of the unit.
4. Fasten the unit to the mounting surface using the provided mounting brackets.
5. Use screws or bolts of an appropriate size.

Routing Power & Control Cables



Conduit Openings

1. Enclosures are supplied with conduit openings located in the bottom of the enclosure directly beneath the power terminals.
2. Power cables should only enter through the bottom of the enclosure in the area directly beneath the power terminals.
3. It is not recommended to drill holes in other areas of the enclosure for power and control cables.

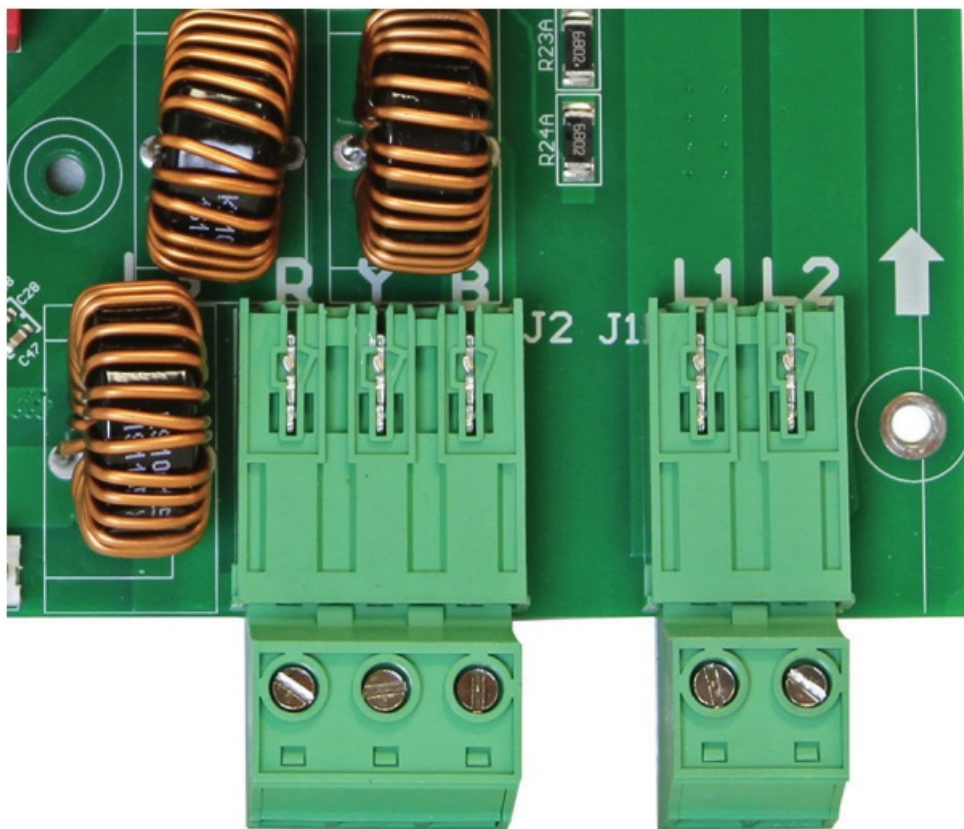
Warning

Metal filings can cause damage. If you do drill additional conduit openings, clean out filings thoroughly.

Routing Cables

1. 1. IMPORTANT: Do not install line-side power cables in the same conduit or cable tray with load-side power cables.
2. Do not route control cables through the same conduit or cable tray as power cables. A separate conduit for control cables must be used. This reduces the exposure of control cables to EMI (electromagnetic interference, or noise) from the motor cables.
3. If the control cables must intersect the power cables, make sure they cross at right angles.

Connecting to Power Terminals



Routing Cables

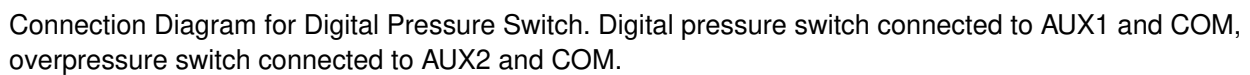
1. Connect input power source to L1 and L2.
2. Connect output power to R, Y, and B (2-Wire Y and B only)

- Note:** Power terminal blocks can be removed from the circuit board to make it easier to wire the input and output power

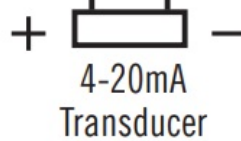
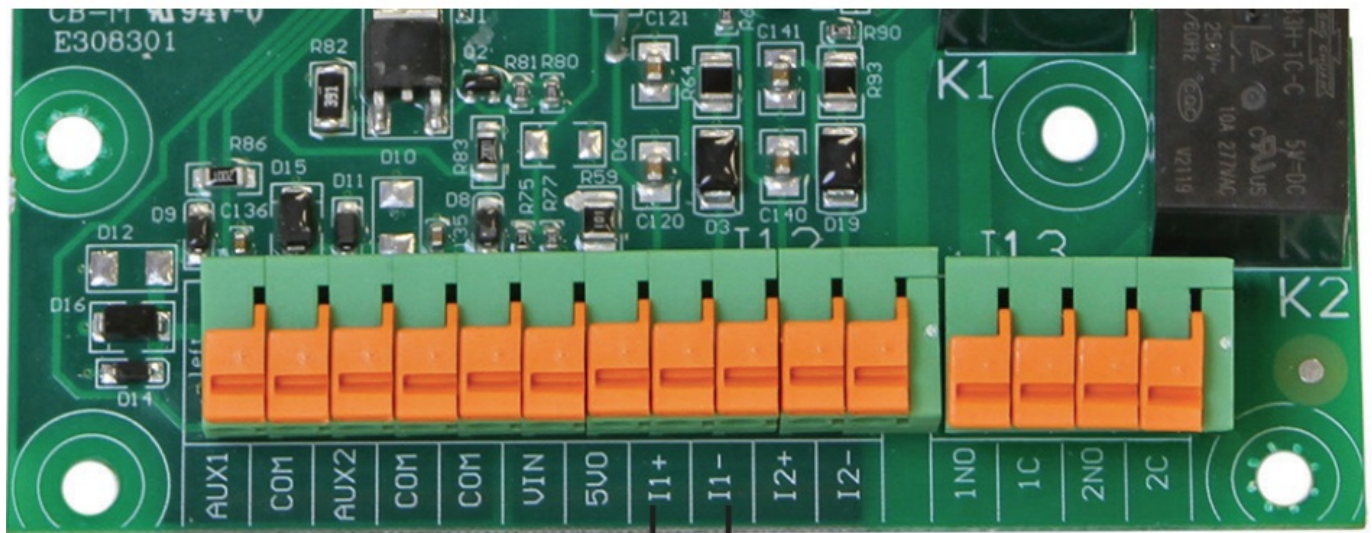
AutoDRIVES are equipped with Control Terminals that allow a number of control functions

- Important Note:**
The proper System Configuration must be selected for proper operation of the various control systems.

Do not supply voltage to AUX1 or AUX2 terminals, it may cause damage and void any warranties in place.

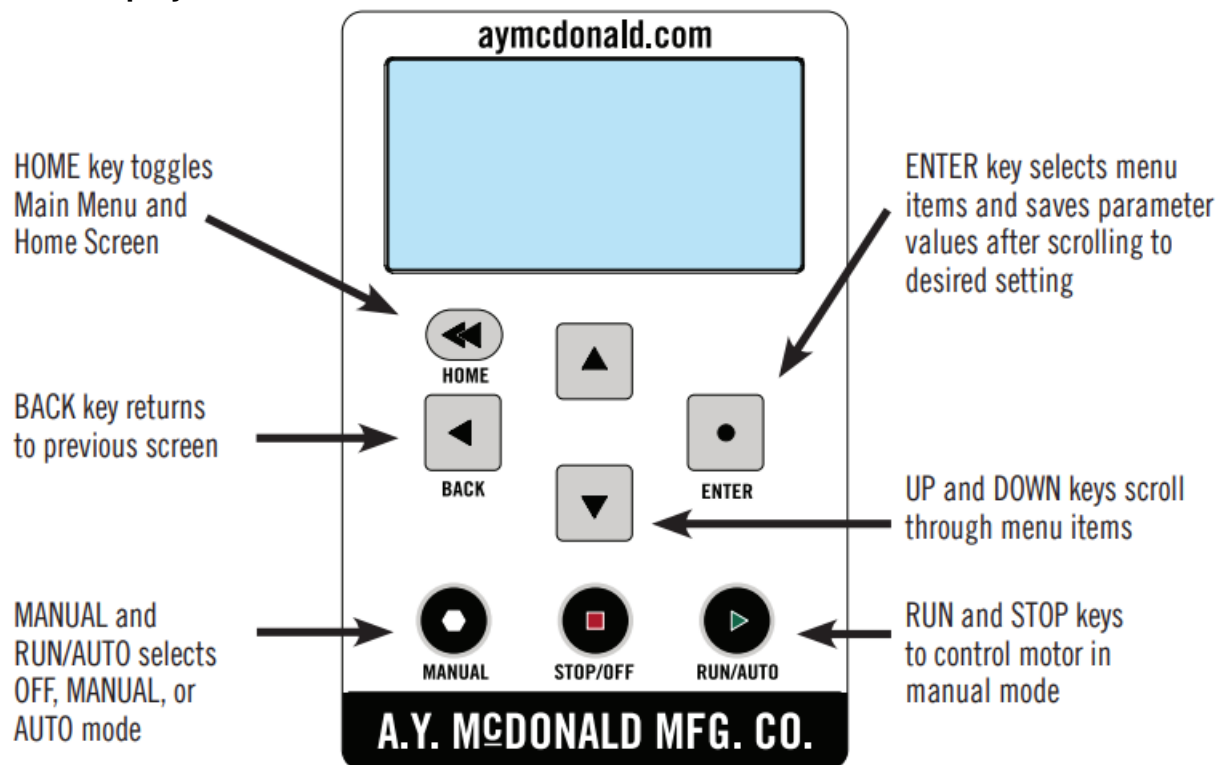


Connection Diagram for Digital Pressure Switch. Digital pressure switch connected to AUX1 and COM, overpressure switch connected to AUX2 and COM.



Connection Diagram for 4-20 mA Analog Transducer

Keypad & Display



Manual Mode Operation

Operating the system in MANUAL mode on the keypad overrides signals from the pressure switches. Operating the system in this mode may lead to dangerous pressures in closed plumbing systems. The VFD will ramp up to MAX FREQUENCY (default 60hz) and run without input from the control terminals.

WARNING:

It is unlawful in CALIFORNIA & VERMONT (effective 1/1/2010); MARYLAND (effective 1/1/2012); LOUISIANA (effective 1/1/2013) and the UNITED STATES OF AMERICA (effective 1/4/2014) to use any product in the

Constant Pressure Setup

- The drive has been securely mounted with proper clearance around the unit
- Input, output, and pressure switch/transducer wiring are all completed
- All plumbing is completed, and the system is ready to be pressurized

Single Phase

Pressure Sensor Type?

- Pressure Sensor Type?
 - Pressure Switch
- Pressure Sensor Type?
 - Pressure Transducer

Motor Type?

- Motor Type ?
 - 2 Wire Motor
- Motor Type ?
 - 3 Wire Motor

Motor Manufacturer?

- Motor Manufacturer
 - A Y McDonald
- Motor Manufacturer
 - Other

psi Setpoint?

- psi Setpoint
 - 50

Service Factor Amps

- Service Factor Amps
 - 12.0 Amps

Three Phase


psi Setpoint?

- psi Setpoint
 - 50

Service Factor Amps

- Service Factor Amps
 - 11.0 Amps

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Autodesk® My In

Autodesk® Quick Start Guide - SDI & SDI Series

1. Introduction & Overview

The SDI Series is a line of high-performance, multi-channel video processors designed for professional video production and broadcast environments. It features a range of models, including the SDI-1, SDI-2, and SDI-3, each offering different levels of functionality and connectivity. The SDI Series is built on a robust, modular architecture that allows for easy integration into existing video systems and provides a high degree of flexibility in terms of input and output options.

The SDI Series is designed to handle a wide range of video formats, including SD-SDI, HD-SDI, and 4K-SDI, and is capable of processing multiple channels of video simultaneously. This makes it an ideal choice for applications such as live video production, video conferencing, and digital signage. The SDI Series also offers a range of advanced features, including motion control, time-lapse, and frame advance, which are essential for professional video production.

2. Features & Specifications

The SDI Series offers a range of features and specifications that make it a powerful tool for professional video production. Key features include:

- Multi-channel processing:** The SDI Series is capable of processing multiple channels of video simultaneously, making it ideal for applications such as live video production and video conferencing.
- High performance:** The SDI Series is built on a robust, modular architecture that allows for easy integration into existing video systems and provides a high degree of flexibility in terms of input and output options.
- Advanced features:** The SDI Series offers a range of advanced features, including motion control, time-lapse, and frame advance, which are essential for professional video production.
- Connectivity:** The SDI Series offers a range of connectivity options, including SD-SDI, HD-SDI, and 4K-SDI, and is capable of processing multiple channels of video simultaneously.

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3. Installation & Configuration

The SDI Series is designed for easy installation and configuration. The following steps outline the basic installation and configuration process:


- Unboxing:** Remove the SDI Series unit from the shipping container and inspect for any damage.
- Power:** Connect the SDI Series unit to a power source using the provided power cable.
- Inputs/Outputs:** Connect the SDI Series unit to your video sources and destinations using the appropriate cables.
- Configuration:** Use the SDI Series control interface to configure the unit's settings, including input/output selection, motion control, and time-lapse.

For more detailed information on installation and configuration, please refer to the SDI Series User Manual.

4. Troubleshooting & Support

If you experience any issues with the SDI Series, please refer to the Troubleshooting section of the User Manual for common problems and solutions. If you are unable to resolve the issue, please contact Autodesk Support for assistance.

Autodesk Support is available 24/7 via email, phone, or live chat. You can find the contact information for your region on the Autodesk website.



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Manuals+.