Martin® Air Cannon Controller - single circuit
Installation Instructions

⚠ DANGER

Before installing equipment, turn off and lock out/tag out all energy sources to the hopper, conveyor, and/or conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

⚠ WARNING

Mounting enclosure

All electrical work must be done to National Electrical Code (NEC) standards.

1. Determine location for controller.

⚠ CAUTION

Do not mount controller in area subject to shock, vibration, temperatures exceeding 130°F (55°C), or explosion. Damage to controller circuitry could result.

2. Mount onto wall with fasteners.
3. Drill conduit holes in controller enclosure for solenoid and power wires. Use care not to damage internal components. Drill in most weather-proof location available on enclosure.
4. Using electrical connectors, route wires from solenoid valve to controller enclosure.

Wiring air cannon solenoids to controller

Solenoid Terminals

Input Power Terminals
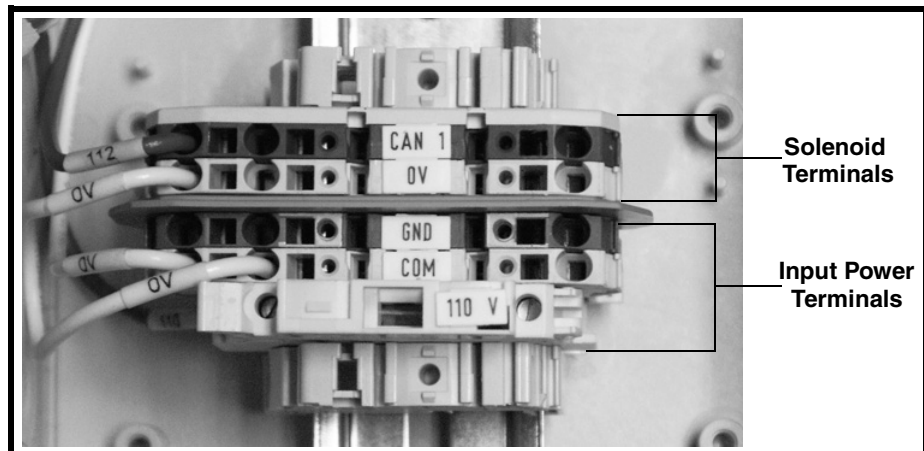
1. Connect wires from air cannon solenoid to terminal strip output 1 and N terminals (see Figure 3).
2. Route power wire (115 VAC, 60 Hz) into controller enclosure.
3. Connect power safety ground wire to terminal block labeled GND.
4. Connect power wires to terminal blocks labeled 110V and COM. Connect phase to 110V and neutral to COM.
5. Connect ground wire from solenoid to controller enclosure.

NOTE

**Time range selectors and setting knobs do not turn infinitely.
Do not rotate beyond limits.**

Setting Timer

1. Determine time for T1 (off time) and T2 (on time).

2. Using a flat screwdriver turn T1 time range selector to the desired position. Adjust T1 setting knob to the desired time. (See Table I.)

3. Using a flat screwdriver turn T2 time range selector to the desired position. Adjust T2 setting knob to the desired time.
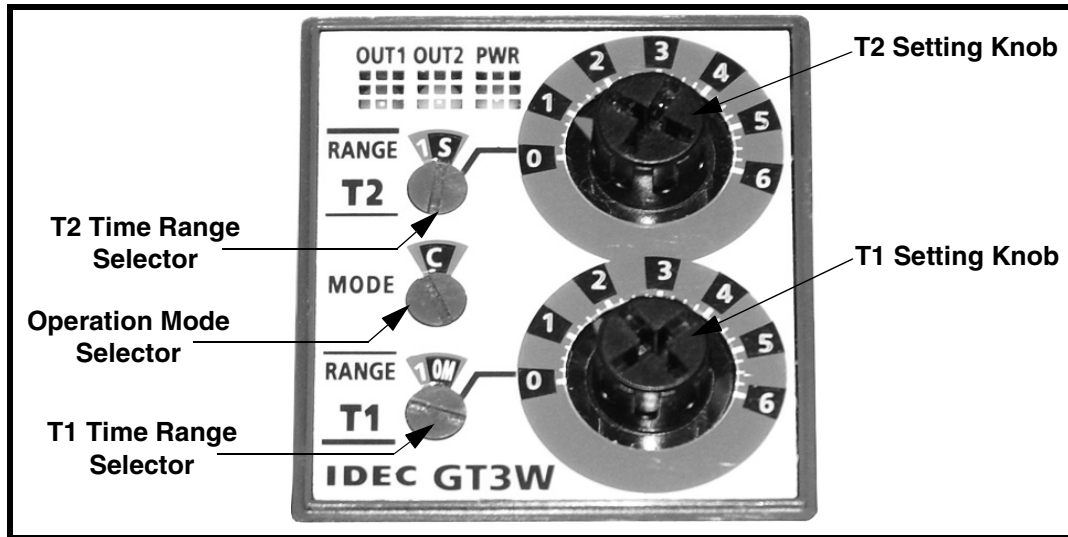
Time Range Selector	Scale	Time Range
1S		0.1 seconds to 1 second
10S	0–1	0.3 seconds to 10 seconds
10M		15 seconds to 10 minutes
1S		0.1 seconds to 6 seconds
10S		1.3 seconds to 60 seconds
1M	0–6	7.5 seconds to 1 minute
10M		75 seconds to 60 minutes
1H		7.5 minutes to 6 hours

Operation Mode "C"

Power ON	T1	T2	T1	T2	T1	T2

T1–Off Time

T2–On Time