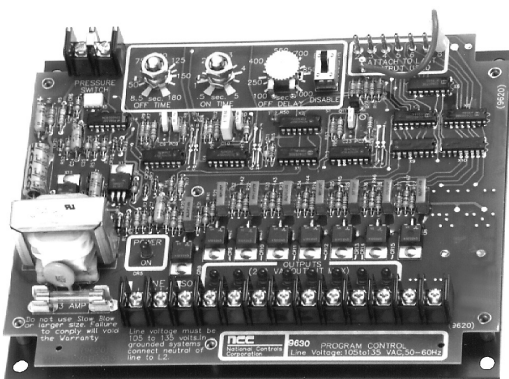


Features

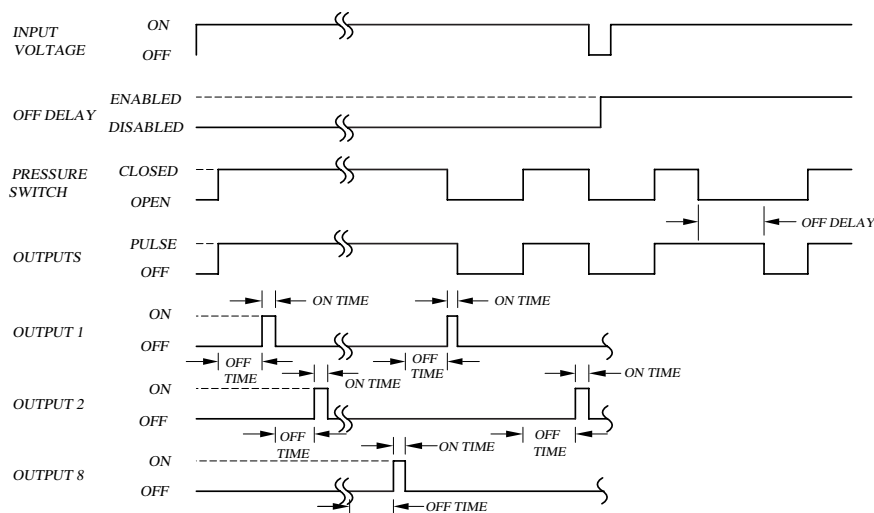
- **Digital Timing Circuitry:** Allows for stable timing from -40°F to 150°F temperature range
- **Pulse Time:** Line synchronized to eliminate 8 milliseconds triac turn off variation
- **10 Amp-400/600V Output Triacs:** For maximum protection against output shorts. 200 VA load rating.
- **RTV Coating:** Conformally coated for protection against vibration, humidity and contamination
- **2 Modes of Operation:** Can be operated continuously or "on demand" via external pressure switch
- **Extended Cycle Capability for Added Pulses After Pressure Switch Opens**
- **Field Selectable:** For number of outputs required
- **LED Indicators:** For compartment being cleaned indication
- **Rugged Timing Adjustments:** Large stable potentiometers are used for "on" and "off" time adjustments
- **Metal Chassis Provided:** For mounting directly into NEMA-4 box
- **Timer Life Tested for 24 Hours:** To eliminate field failures
- **Input Protection:** 30 joule metal oxide varistor
- **One Year Warranty:** Warranted to be free from defects in materials or workmanship for One Year from date of purchase
- **Made in USA**



Dust Collector Controls

Pulse Jet Dust Collector Control w/ Extended Cycle DNC-T2110 Series

Logic Function Diagram:



Operating Logic: The DNC-T2110-A10/B10 are ten output sequencer, cycle timers with adjustable ON-TIME, OFF-TIME and DELAY times. When voltage is applied to L1 and L2 and the pressure switch is closed, the OFF-TIME is started. At the end of the preset OFF-TIME the control will cycle through the outputs until the pressure switch opens. The ENABLE/DISABLE switch on the control can enable the OFF-DELAY. When the pressure switch opens and the OFF-DELAY is enabled, then the OFF-DELAY time is started and the OFF-TIME, ON-TIME cycles will continue until the end of the OFF DELAY time. If the OFF-DELAY times out during the ON-TIME, the control will allow the ON-TIME to time

out. Upon closing of the pressure switch the control will commence the OFF-TIME, ON-TIME sequence on the next output and the OFF-DELAY time will reset. If the pressure switch is closed during the OFF-DELAY time, the control will reset the OFF-DELAY. The ENABLE/DISABLE switch on the control can disable the OFF-DELAY. When the OFF-DELAY is disabled and the pressure switch opens, during the ON-TIME, the control will allow the ON-TIME to time out. Upon closing of the pressure switch the control will commence the OFF-TIME, ON-TIME sequence on the next output.

Specifications

Time Delay

Off Delay Time: Adjustable from 100 sec.+0%, -50% to 1000 sec.+10%, -0%. Off Delay Time can be disabled.

On-Time: Adjustable from 50 to 500 milliseconds

Off-Time: Range A - adjustable from 1.5 to 30 seconds; Range B - adjustable from 8.5 to 180 seconds

Repeatability: $\pm 3\%$ over temperature and voltage ranges

Input

Operating Voltage: 105 - 135 VAC

Frequency: 50/60 Hz

Power Consumption: 5 VA Max.

Output

Type: Solid-state switch (Triac)

Switch Rating: 200 VA maximum per output, 1.8 VAC RMS max. ON state voltage drop 4 mA max. OFF state leakage current @ 120VAC

Protection

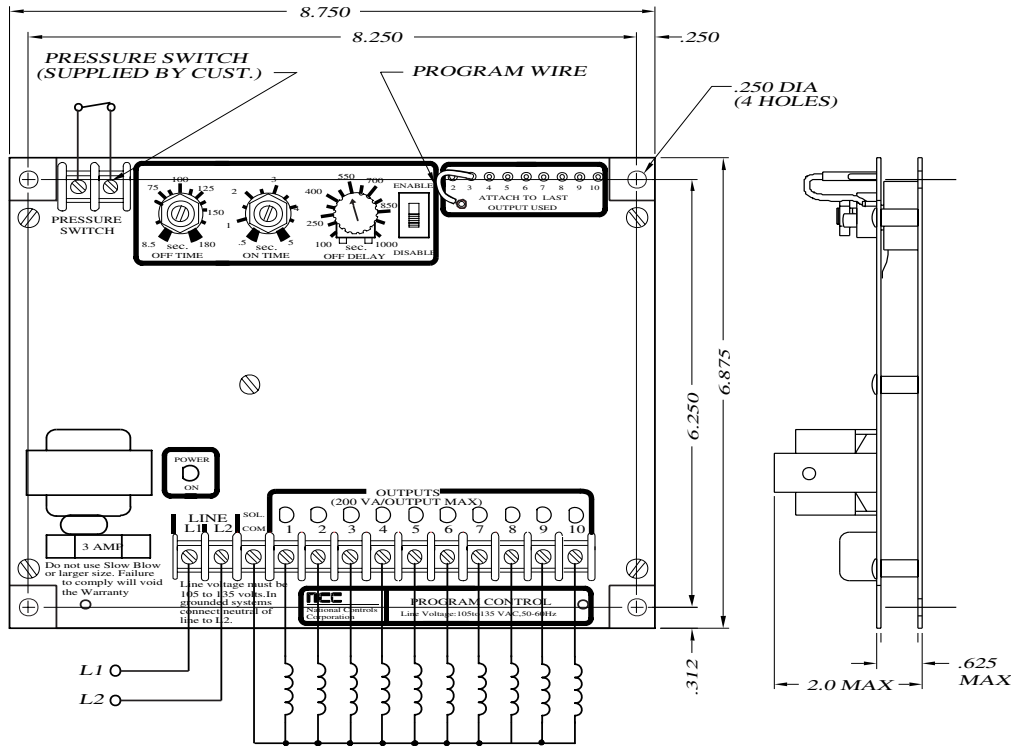
Transient Voltage: 30 joule metal oxide varistor

Short Circuit Protection: 3 Amp. fuse

Environmental

Operating Temperature: -40°C to 66°C

Storage Temperature: -40°C to 85°C



Ordering Information

Description	Programmable Number of Outputs	Off Time in Seconds	Part Number
Pulse Jet Controller w/ Extended Cycle Capability	2 - 10	1.5 - 30	DNC-T2110-A10
		8.5 - 180	DNC-T2110-B10

Accessories:

Description	Dimensions	Part Number
NEMA-4 BOX	10" x 8" x 4"	BOX-A1008-CHNF
Pilot Lamp	NEMA-4 Rated Red Light	ASL-00RED-NEMA4
On/Off Switch	NEMA-4 Rated w/Legend Plate	MSW-0DPST-011

AMETEK NCC offers NEMA 4 type enclosures for mounting our controls. These enclosures are made of heavy gauge steel and have a continuous hinge cover. All seams are continuously welded. The finish is gray hammer-tone enamel inside and out, over phosphatized surfaces.

Note. In order to keep abreast of the latest technology, AMETEK NCC reserves the right to change components and/or design of controls without notice.

Important Notice to Users:

Our timers are capable of use in a wide array of devices and in various applications. Any device or system incorporating a timer should be so designed that, in the event of failure, malfunction or normal wear-out of the timer, the system will become inoperative in a manner which will prevent property damage or bodily injury.

Caution:

1. Do not mount controls in high vibration areas without shock mounts.
2. Do not mount controls in areas of high dust or corrosive atmospheres without a protective enclosure.
3. Do not use a converter or inverter for the power source.
4. Do not mount control in high transient voltage areas without an isolation transformer
5. Do not leave control box open.
6. Do not allow a local repair shop to repair the controls, as we employ some very sophisticated components that could be further damaged. For service, call us directly: 800-323-2593