

# Dynatrol®

## CL-10GJ

The Dynatrol® CL-10GJ Level Detector for bulk solids is designed for high- or low-point level detection and constructed to handle sensitive or problem applications with the tendency to pack or bridge. This level detector successfully operates with consistent results on difficult product applications such as flour, cocoa, sugar, pharmaceutical powders, powdered lime and other bulk solid materials. Built in the USA for over 60 years, Dynatrol® Level Detectors are solidly constructed units designed to withstand harsh environments.

### ADVANTAGES

Dynatrol® level detection switches operate where other types of controls may experience failure, and perform with consistent results on many difficult product applications. All the level detector components are constructed for a long operating life and require no field adjustments. Dynatrol® Level Detectors can be modified for special level detection applications such as temperatures greater than 600°F, cryogenic temperatures, chemical corrosion, and media requiring special coatings. Let Dynatrol® provide a worry-free solution for you today!



### SPECIFICATIONS

#### DYNATROL® CL-10GJ Level Detector

- EXPLOSION PROOF: CSA NRTL/C approved for Class I, Group C & D; Class II, Groups E, F & G; Class III
- TEMPERATURE RATING: 300°F  
*(consult factory for higher ratings)*
- PRESSURE RATING: 1000 PSIG @ 100°F  
*(consult factory for higher ratings)*
- PRESSURE CONNECTION: 3/4-inch NPT
- CONDUIT CONNECTION: 1/2-inch NPT
- TYPICAL DENSITY RANGE: 10-15 lbs/ft<sup>3</sup>

### PRINCIPLE OF OPERATION

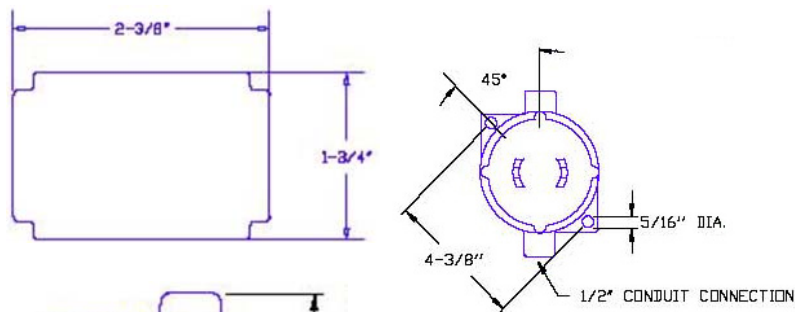
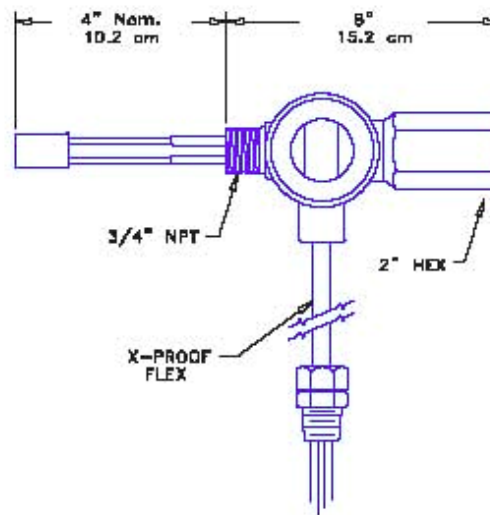
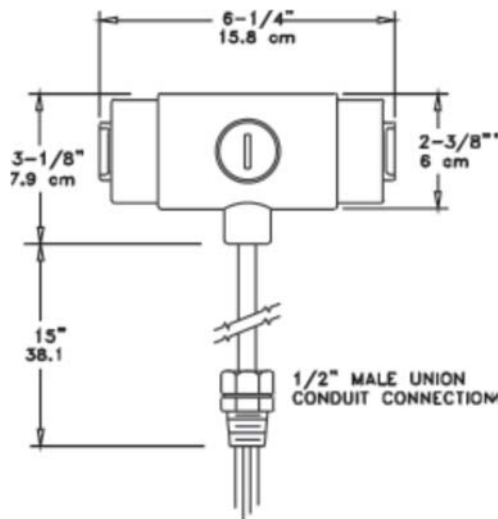
The Dynatrol® CL-10GJ is installed at the desired point of level detection. An uncovered probe is free to vibrate and produces an output signal. The signal operates a relay indicating the probe is uncovered and a low level exists. When the probe is covered, a dampening of the oscillation occurs. The resultant loss of signal de-energizes the relay, indicating a high level exists.

The ON/OFF signal from the vibrating Dynatrol® Level Detector operates the EC-501A(G) Control Unit's SPDT relay. The contacts of this relay can be used to actuate level alarms, indicator lights or process control equipment.

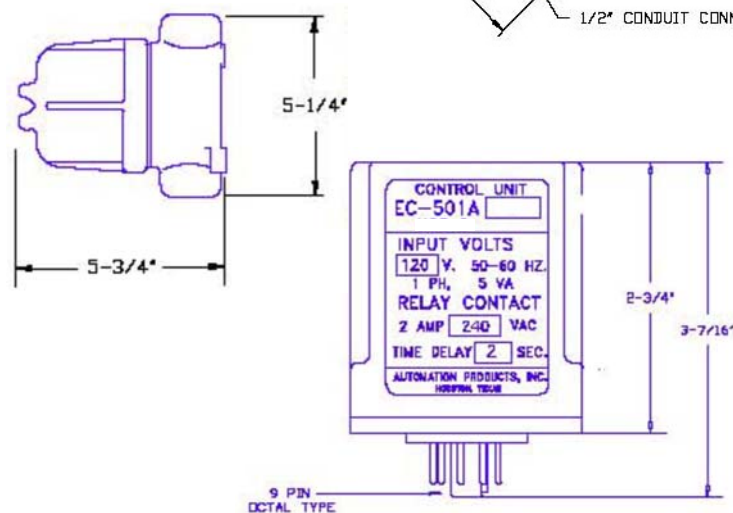
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# Dynatrol® Level Detector Information

## CL-10GJ



## EC-501A(G)



### SPECIFICATIONS

#### EC-501A Control Unit

- EXPLOSION PROOF: CSA NRTL/C approved for Class I, Group C & D; Class II, Group E, F & G; Class III
- VOLTAGE SUPPLY (Nom): 120v—50-60Hz
- POWER CONSUMPTION: 5 VA
- TEMPERATURE RATING: 125°F max
- CONTACTS: SPDT 2A @ 120 VAC (Non-Inductive)
- Also available in 240 VAC and 24 VDC