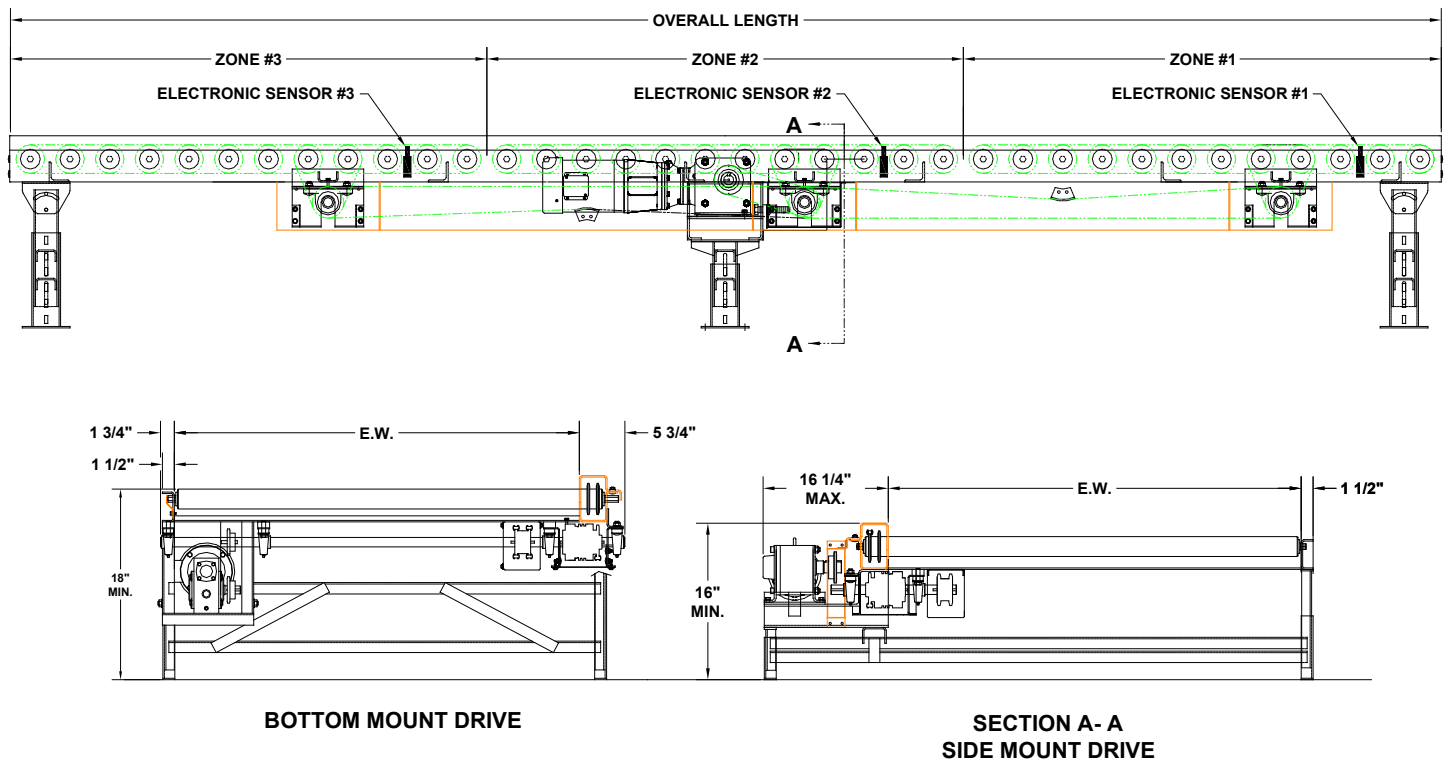


MODEL ZPA

ZERO PRESSURE CHAIN DRIVEN ELECTRONICALLY CONTROLLED AIR CLUTCH ZONE ACCUMULATOR



How the Conveyor Works

A Chain Driven Live Roller Conveyor is set up with individually controlled “zones” by installing electronic sensors at equal intervals along the conveyor. Power to individual zones comes from a main chain drive that runs the length of the conveyor. Each zone is driven off the main drive and activated or deactivated with an air operated clutch controlled by an electronic sensor.

In normal operation, the discharge zone (zone #1) is electronically activated by an electrical solenoid (provided by Titan). When a load is placed on the conveyor, at the infeed, it travels the length of the conveyor to the discharge. At the discharge the load activates the electronic sensor which activates the air clutch and stops the load. At the same time, this disengages the clutch and moves a load into zone #2 to accumulate the next load placed on the conveyor.

When the conveyor is to be unloaded, an external signal (NOT provided by Titan) is sent to the solenoid switch which engages the clutch in zone #1. This activates the zone rollers and moves the load toward the discharge. Once the load clears the electronic sensor, the second load moves forward from zone #2 to zone #1 and all other loads advance forward one zone.