MODEL TA
BELT ALIGNMENT
SWITCH

NUMBER OF UNITS RECOMMENDED:
Not less than four alignment switches shall be furnished on each conveyor. One on each side of the belt near the head and tail pulleys. For conveyors greater than 1,500 feet (457 meters) long an additional four alignment switches shall be provided evenly spaced, one on each side of the carrying and return belt.

INSTALLATION INSTRUCTIONS:
Model TA units are always used in pairs with one placed on each side of the conveyor belt, usually near the head end of the conveyor. They may also be placed at the tail pulley and at selected points along the conveyor.

The micro switch can be wired to give warning signals or it can be connected directly into the motor starter circuit to stop a conveyor.

The unit should be mounted on supports so that the roller is positioned in a vertical direction to intercept the conveyor belt at its midpoint. The roller is 9 3/4" high. The point of interception would be at the 47/8" point. Units should not be mounted too close to the belt because false signals would result. In most applications, the units could be mounted about 1" from the belt, eliminating false signals but protecting the belt against wide deviations.

TECHNICAL INFORMATION:

ALL SWITCHES
TA-1 One SP/DT micro switch
TA-2 Two SP/DT micro switches (individually adjustable)
TA-1X Explosion proof with one SP/DT switch
TA-2X Explosion proof with two SP/DT switches

MANUAL RESET: A positive lock-out model with manual reset is available.

SWITCHES: SP/DT micro switches. Rated 20 amp at 125, 250, or 480V AC. Switches may be wired for single throw operation, either normally open or normally closed as required. DP/DT micro also available.

STANDARD CONSTRUCTION: Rubber gaskets seal units against dust and rain for NEMA 4 outdoor applications. Applies to units TA-1 and TA-2. NEMA 7/8 units also available.

HOUSING: Aluminum, Polyester or Epoxy coating available.

CONDUIT OPENING: One 3/4" NPT standard opening.

ACTUATING ARM: Red epoxy coated steel roller with stainless steel shaft.

EXTERNAL HARDWARE: Stainless steel

OPERATING TEMPERATURE RANGE: -40°F to +150°F.

WHAT THE SWITCH DOES:
The model TA Conveyor Belt Alignment Switch protects conveyor belts from damage due to belt misalignment or runoff. These controls are used in pairs with one switch placed on each side of the conveyor belt. Each unit can be equipped with two micro switches to produce signals indicating belt misalignment at two deviation points. The first signal point could indicate small belt deviation by sounding an alarm. The second signal point could guard against extreme belt runoff by shutting down the conveyor.

Each control consists of an aluminum housing with a red epoxy coated roller. The roller is adjustable up to 90° in both directions and is positioned approximately 1" from the conveyor belt. The switch actuation points are adjustable from 0° to 45° by a simple change of the actuating cam(s). The model TA can be furnished with general purpose or explosion proof construction. Epoxy coated cast aluminum housing available upon request.

DIMENSIONS: