OPERATION-INSTALLATION & WIRING INSTRUCTIONS

Operation centers around the low torque slow speed synchronous motor. The motor either turns the paddle in the absence of the bulk material, or turns itself to actuate DP/DT 20 amp relay contacts when paddle rotation is stopped by the bulk material.

In the event of electrical failure (power loss, open or shorted motor circuit, or failure of a protected component) the FAILSAFE OPERATION will generate the desired control response from the relay and provide notification of failure. The fail-safe circuit is completely enclosed in the Roto-Bin-Dicator housing and requires no additional external switches or relays for its operation.

A simple adjustment enables all Roto-Bin-Dicator Fail-Safe's to be used in either the high level or low level mode without any effect on normal level control operation.

Mounting Location: There must be free flow of material both to and away from the paddle and shaft. Keep the paddle and shaft out of the direct flow of material. Protective baffles or offset mounting may be required.

Mounting Surface Preparation:
A. On a 7" bolt circle, drill and tap or drill 6 equally spaced holes in bin wall for 3/4" bolts or cap screws. Bolt heads should be tack welded to bin inner wall.
B. Cut 5" diameter hole to pass paddle.
C. If required, fabricate & weld or bolt protective baffle to inner wall.

Mounting on Side of Bin:
A. Conduit opening must be down or to the left.
B. Assemble gasket between mounting plate and bin wall.
C. Use a pair of rubber and steel washers beneath the attaching hardware.

WIRING INSTRUCTIONS:
In order to insure proper fail-safe operation, the power source to the Roto-Bin-Dicator must be independent of the source to the equipment being controlled.

A. Connect power and "FAILSAFE" light to terminals HOT-NOR per wiring diagram.
B. Connect alarm contacts per contact position chart.
C. Apply power to Roto-Bin-Dicator, observing paddle for proper rotation.
D. Fasten housing cover securely to prevent damage from dust and moisture.

FAILSAFE SELECTION: Failure to program the desired fail-safe mode will result in improper control operation. Therefore, the fail-safe mode must be selected as follows:

A. High Level Fail-Safe
To select high level fail-safe, clip the wire link labeled "LO" from the printed circuit board, leaving the link labeled "HI" in place. The fail-safe links are located in the upper right hand corner of the circuit board.

B. Low Level Fail-Safe
To select low level fail-safe, clip the wire link labeled "HI" from the printed circuit board, leaving the link labeled "LO" in place. The fail-safe links are located in the upper right hand corner of the circuit board.