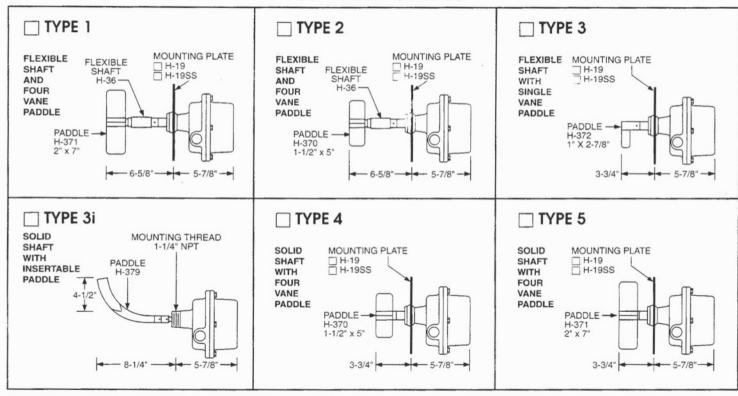
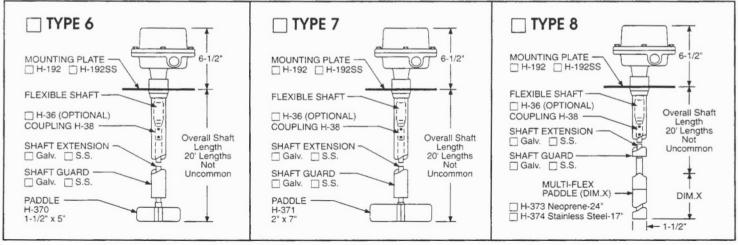
# ROTO-BIN-DICATOR® SINGLE SWITCH MODELS



#### SIDE OF BIN MOUNTING



### TOP OF BIN MOUNTING

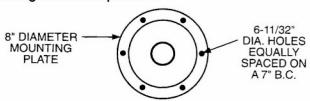


## **OPERATION-INSTALLATION & WIRING INSTRUCTIONS**

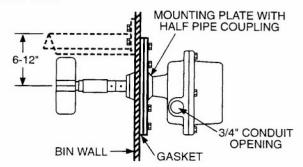
**Operation** centers around the low torque slow speed synchronous motor. The motor either turns the paddle in the absence of the bulk material, or turns itself to actuate the Micro switch when paddle rotation is stopped by the bulk material. Constant power to the stalled motor keeps the switch actuated until the paddle is again free to turn.

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 1/4" bolts or cap screws. Bolt heads should be tack welded to bin inner wall. Cut 5" diameter hole to pass paddle. If required, fabricate & weld or bolt protective baffle to inner wall.



#### Mounting on Side of Bin:

Conduit opening must be down or to the left.

Assemble gasket between mounting plate and bin wall.

Use a pair of rubber and steel washers beneath the attaching hardware.

Mounting on Top of Bin:

Cut shaft extension pipe to required length and drill a 1/8" hole through the pipe 7/16" from each end.

Assemble shaft extension to H-38 coupling and pin securely.

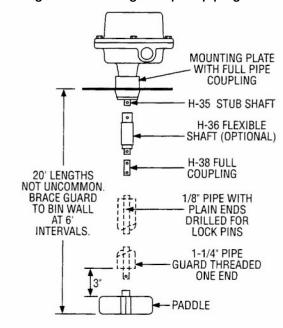
Cut pipe guard 5" shorter than overall extended shaft & paddle length. Thread one end 1-1/4" NPT.

Assemble guard over extension and screw securely into mounting plate.

Assemble paddle to shaft extension and pin securely.

Note: Shaft extension must be free to turn inside of shaft guard pipe. Drive all lock pins in flush to lock securely.

\* Shaft length 12" and longer require pipe ground.



NOTE: If separate couplings are used in place of conventional mounting plates with integral couplings, be sure they are welded in the bin wall or top so that half the coupling protrudes inside the bin. Use only half couplings for side of bin mounting.



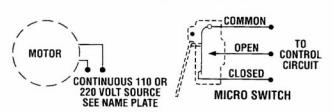
Warning - Explosionproof Units: In hazardous locations, a seal fitting must be located within 18" of the control. In order to preserve the explosionproof integrity of the casting, care must be excercised when removing and replacing the cover so no damage is done to the flanges.



#### WIRING:

- Connect power source for motor to terminal block. Continuous power is essential. Motor may be stalled indefinitely without damage.
- Make wiring connections to control Micro switch using a separate circuit from that of the motor.
- C. Apply power to motor circuit checking freeness of operation and actuation of the Micro switch.
- Fasten housing cover securely to prevent damage from dust or moisture.

#### SCHEMATIC CIRCUIT DIAGRAM



#### **AUTOMATIC BIN LEVEL CONTROL WIRING DIAGRAM**

