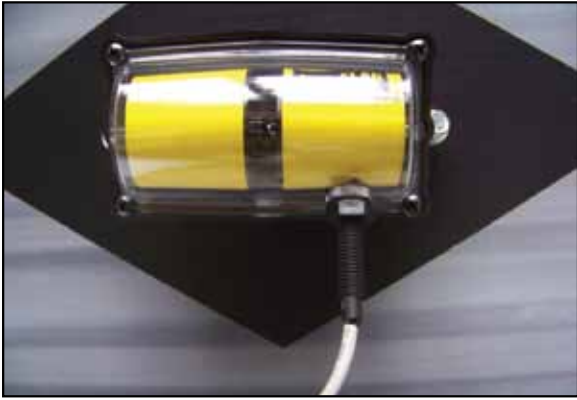# BIN FLAG™ Sensaphone

The Bin Flag gives producers a great visual indicator of the level in feed bins, even up to 200 feet away. It can also work with the building existing alarm system to dial out an alarm when a bin's feed level gets too low. The Bin Flag uses a simple magnetic sensor (part # HDL59065-952) to activate a contact in the alarm. Because there are no 110v power lines to install to the bin, it's a simple DIY project. Setting up the Bin Flag with the Sensaphone 400/800 dialer alarm involves a few simple steps.

Installing the Magnetic Sensor

Remove the red plastic plug. Thread-in the magnetic sensor until it touches the rotator face. Unthread two turns and lock into place using the jam nut.

The Bin Flag will signal a feed outage when the feed drops away from the interior paddle and the rotator changes from yellow to black. To activate this condition we will set up a normally closed sensor setting.

For our example we have selected Zone 4 to be the bin alarm. Install the red lead into C terminal and install the black lead into the 4 terminal. The wire used between the magnetic sensor and the Sensaphone should be a 26 ga wire which is common telephone wire.

Configure Zone (3.3 in Sensaphone owner manual)

STEP 1: SET CONFIGURATION OF ZONES

The Model 400 will scan the 4 external zones and determine if they are N.O. (normally open), N.C. (normally closed), or Temperature. If external sensors are added, make sure they are in their nirmal positions beofre proceeding - refer to Chaper 5, Section 5.1.

1. Press STANDBY to place the model 400 in Standby mode.

2. If you have external sensors available, wire the sensors to the zones on the back of the Model 400 (see Chapter 2, Section 2.10). Otherwise, skip this step and move to step 3.

3. Press RUN. The system On light glows when the Model 400 returns to Run mode.

4. Press SET.

5. Press CONFIGURE.

6. The Model 400 will audibly recite the new configuration for each of the four zones, responding with "normally open", "normally closed", or "Temperature." If a zone is unused, it is treated as normally open.

If the leads from the magnetic sensor where connected correctly, the Sensaphone will recite Zone 4 as "normally closed"

Programming a voice Message for a Zone (from 4.1 in Sensaphone owner's manual)

1. Press the SET key.   SET

2. Press the MESSAGE key. The 400 will say, "Enter Message Number."

    MESSAGE

3. Press the number key for the corresponding Zone.

4. When the unit beeps, begin speaking your message into the microphone. The unit will say "OK," when
   the recording time has elapsed; then will play back your recorded message.

In our example we recorded this voice message
"Feed Outage, Jones Site, Building 1 , Bin 1"

When a Feed Outage Occurs

When feed drops away from the Bin Flag, the rotator will change from yellow to black. This will also
trigger an alarm condition and the indictor light next to Alarm LED will blink red. The unit will also
begin its call out procedure alerting the call list of the feed outage condition.