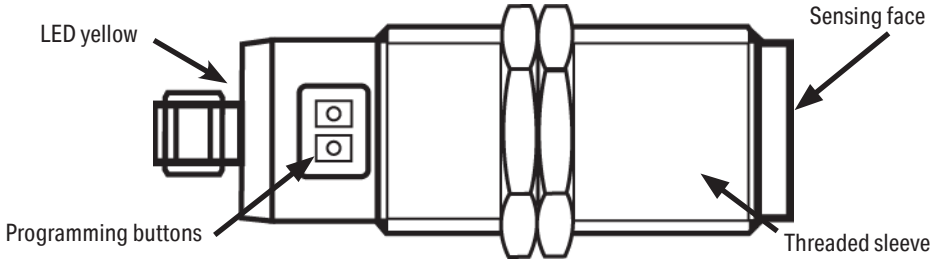

Push Button Style Sensor

The level sensor switches when material passes in front of the active area. The level sensor adjustment depends on the type of material and must be adjusted accordingly.

Calibrating with no material present

1. **Make sure the Efector sensor is installed into the rear of the blender chassis so that it is flush with the inside of the rear of the mixing chamber.** It should be installed as close as possible to being flush and still allow access to push button and indicator light (should be facing away from mixing motor - towards the outside of the unit).
2. **Make sure the supplied nut is installed in the back of the sensor, tightened against the weld coupling on the back of the chassis.**
3. **Turn power on, and make sure that all mixing components are in place, and close the door.**
4. **Use a small screwdriver or pen to press the OUT OFF adjustment pushbutton until the yellow LED flashes at a rate of 1Hz.** This should take about 2 seconds. Release the OUT OFF button and the yellow LED ring will turn off. The sensor is now set for emptying mixing chamber and should need no further adjustment.
5. **Hold a finger over the front of the sensor and make sure that the yellow LED illuminates to indicate that the sensor is functioning properly.**
6. **Operate the mixer manually to ensure that the yellow LED does not light when mixer blade passes the face of the sensor.**

For most applications setting the sensor with no material in the vessel is sufficient. A large amount of fines or regrind or a low bulk density material may require calibrating or adjusting the sensor with material present in the bin. Making a full adjustment (material present) does not change the empty adjustment.

Calibrating with material present

With material present, use a small screwdriver or pen and press the OUT ON adjustment push button until the yellow LED flashes at a rate of 1Hz - this should take about 2 seconds. Release the OUT ON button and the yellow LED will turn off. The sensor is now set for the mixing chamber with material present. IMPORTANT - do not adjust the OUT OFF LED, this will change the operation of the level sensor and it will no longer work for this application.

✎ **NOTE**: Depending on the build date of your equipment, you may have the "push button" style sensor or the "dial adjustment" style sensor. Both sets of instructions are included here.

IMPORTANT - Do not adjust the OUT ON LED, this will switch the operation of the level sensor.

TIP: If this does occur, make sure the sensor is inserted flush with the rear plate of the mixing chamber. If the unit still sees the mixer while in operation, turn the mixer blade to the position where the sensor is sensing the blade and repeat step 4. This will adjust the sensitivity of the sensor so that the blade is invisible, but the material will still be sensed during operation.

Dial Adjustment Style Sensor

Every sensor is equipped with a multi-turn screwdriver adjustment located within a small hole on the corded end of the sensor body. Most are also equipped with an indicator light to signal response by the sensor.

To adjust the capacitive level sensor's sensitivity:

✎ **NOTE**: Some sensors may use push-button adjustments for sensor sensitivity. See the sensor's documentation for adjustment procedures.

Rotate the multi-turn screwdriver adjustment clockwise for more sensitivity and counter-clockwise for less sensitivity. The small signal light on the sensor illuminates when the sensor "sees" the material. As a guide, the light will go off when the sensor detects nothing in front of its face. It should be adjusted to ignore adjacent surfaces and fine-tuned to respond only to the presence of material. This may require several back-and-forth adjustments to optimize the setting.