

SPECIFICATIONS AND OPERATING INSTRUCTIONS FOR AP-2983A UNIVERSAL FEED SENSOR

- OPERATING VOLTAGE:** 24 to 240 Volts AC or DC
- FREQUENCY:** 45 to 65 Hz
- MAXIMUM LOAD CURRENT:** 0.2 Amps AC or DC
- CONTACTS:** N.C. -Normally Closed- (Brown and Red wires)
N.O. -Normally Open- (Brown and Orange wires)
Note: Any wire not used must be taped for protection!
- CORD:** 18 AWG, 3 Conductor, Type TC, Length - 6 Ft
- SENSING DISTANCE ADJ:** Sensitivity Setting 4 (Factory-Set at 1/16 inch), Range 1 to 6
- TIME DELAY RANGE:** 0 Seconds to 3 Hours
- ADJUSTMENT METHOD:** "Min" push button, and "Hr/Sec" push button
- INDICATOR LIGHTS:**
- | | | |
|------------|-------|------------------------------------|
| Red LED | On | - Program Mode- |
| Yellow LED | On | - Product Detected- |
| Green LED | Flash | - Delay before Relay is Activated- |
| Green LED | On | - Relay Activated- |
- INSTALLATION:** Rubber Mounting Grommet (AP-1004) with Cable Tie to Secure Sensor to Grommet. *Note: Do not use hose clamp!*
1-7/16 inch Dia Hole Required for Grommet. Insert Sensor thru Grommet up to "GROMMET INSERTION LINE"

OPERATING INSTRUCTIONS:

Program Mode (To adjust Time Delay),

- Press "Min" and "Hr/Sec" button at same time
- Red LED will turn on and Time Delay is reset to 0
- Press & Release "Min" button to add 1 minute to time delay (Red LED will quick flash)
- Press & Release "Hr/Sec" button to add 1 second to time delay (Red LED will quick flash)
- Press & Hold "Hr/Sec" button to add 1 hour to time delay (Red LED will slow flash)
- To Exit Program Mode, wait 5 seconds
- Red LED will shut off and Sensor is in the Normal Operating Condition

Program Mode (To adjust Sensitivity)

- Press and Hold "Min" and "Hr/Sec" button at same time, until Red LED begins to flash
- Red LED will flash Sensitivity Setting from 1 to 6, with 6 being the most sensitive
- Touch the sensor end to change sensitivity, setting 6 will roll over to setting 1
- Wait 30 seconds to exit Program Mode
- Red, Yellow and Green LEDs will cycle for another 30 seconds. Place Sensor back in grommet while LEDs are cycling. If LEDs stop cycling before sensor is back in grommet, repeat Sensitivity programming
- **Note: Grain should not be in front of sensor when placed back in grommet**

When Product is Detected,

- N.C. contacts – open
- N.O. contacts – close
- Yellow LED comes on and stays on until Product is Removed

When Product is Removed,

- Time Delay begins (On power up, 1st Time Delay is always 10 seconds)
- Green LED flashes every second until Time Delay expires

When Time Delay expires,

- N.C. contacts - close
- N.O. contacts - open
- Green LED stops flashing and remains on until Product is Detected