

GrowerSELECT HS10 Feed Sensor

Specifications:

Operating Voltage: 90-250 VAC

Frequency: 50-60 Hz

Relay Contact Maximum Current Load: 5A Resistive and 2A Inductive (Motors and Relays)

Sensitivity: 0-9/16" (Factory Setting is for 1/4")

Time Delay Range: 0-4 Hours (Factory Setting is for 30 seconds)

Ambient Operating Temperature: -4°F-+158°F

Cord: Length= 5' 18-5 SJTW

These instructions are guidelines for new GrowerSelect installation in four (4) wire Sensor control units. In all cases, the OEM (Original Equipment Manufacturer) wiring instructions should be followed if possible.

It is in no way to be used to violate or supersede local, state and national wiring codes. All wiring sizes and fuse capacities are to be sized according to national electrical code specifications or other applicable regulations.

For the purpose of installation:

- **NC** (Normally Closed) is defined as contacts closed (runs) with power supply connected to sensor and no product in contact with sensor. (Black wires marked #1 & #3)
- **NO** (Normally Open) is defined as contacts open (does not run) with power supply connected to sensor and no product in contact with sensor. (Black wires marked #1 & #4)
- **COM** (Common) is defined as common or supply for sensor circuit used in conjunction with NO or NC leads. (Black Lead #1)
- **L1** (Line 1) is defined as Line 1 of power supply circuit. (Brown wire)
- **L2** (Line 2) is defined as Line 2 of power supply circuit. (Blue wire)

Mounting:

Sensor should be installed consistent with existing sensor mounting in rubber grommet or other suitable mount. Replacement grommets can be purchased at your local Hog Slat retailer. Sensor should be inserted into grommet so that 1/2" minimum of sensor protrudes past grommet into grain/feed area (Figure 1). It should be secured with supplied Nylon cable tie. **Do not use hose clamp!**

For new installations, use HS10-2 mounting kit and position sensor as shown in Figure 1.

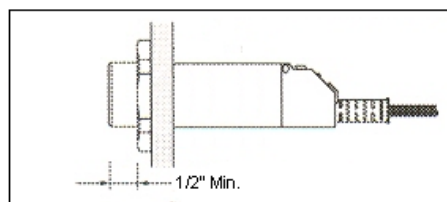


Figure 1

Wiring Instructions

Installation in four (4) wire control systems:

Installation should be consistent with existing sensor wiring and OEM's recommendations. Use the chart below to determine correct lead connection point for the **HS10** per OEM's sensor configuration.

Note: The Hog Slat, **HS10**, leads should be connected to the same location as the replaced OEM sensor's lead per this chart (Figure 2)

Lead	HS10	
Normally Closed (NC)	Black 3	
Normally Open (NO)	Black 4	Normally not used
Common	Black 1	
L1	Brown	
L2	Blue	

Figure 2

Note: Any wire(s) not used must be taped (insulated) for protection!

Operating Instructions:

All settings should be made with Product (Grain or Feed) **not** in contact with sensor (Sensor is **not** Activated).

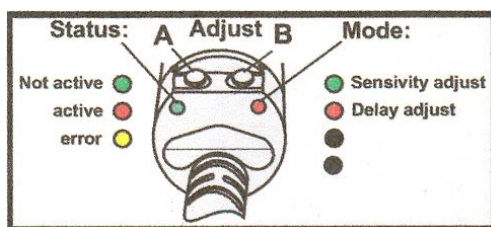


Figure 4

Setting Time Delay (Factory setting is 30 seconds)

1. Press Buttons "A" & "B" simultaneously twice (2) until Mode LED is Red
2. Press and Release Button A once for each minute of delay desired
3. Press and Release Button B once for each second of delay desired
4. To exit Time Delay Program Mode, Press Buttons "A" & "B" simultaneously once
5. Red Program Mode LED will go off

Setting Sensitivity (Factory setting is 1/4", for grain)

1. Press Buttons "A" & "B" simultaneously once until Mode LED is Green
2. Press and Release Button A will decrease sensitivity by 1/32"
3. Press and Release Button B will increase sensitivity by 1/32"
4. To exit Time Delay Program Mode, Press Buttons "A" & "B" simultaneously twice (2)
5. Green Program Mode LED will turn Red then go off.

Setting Special Functions

1. Reset to Factory setting for Sensitivity and Delay
 - Press Button "A" & "B" simultaneously and hold for 15 seconds until both LEDs turn "yellow."
2. Show Delay
 - Press and hold button "A" and then press button "B" twice (2). Mode LED will flash Red once for each minute of delay, flash Green once for each second of delay and flash Yellow once for each hour of delay. (For example: 1 Red flash and 2 Green flashes indicate 1 minute and 2 second delay)
3. Switch Off Delay
 - Press and hold Button "A" and then press Button "B" seven (7) times

General Operating Considerations

When Product (Feed) is Detected

- NC Contacts—Open
- NO contacts—Close
- Status LED turns Red and stays on until Product is Removed

When Product (Feed) is Removed

- Time Delay Begins for programmed amount of time
- Status LED will flash Red until Delay expires.

When Time Delay expires

- NC Contacts—Close
- NO contacts—Open
- Status LED stops flashing and turns Green until Product is Detected

When Status LED is Yellow

- There is an Error in Sensor

HSART-392 Rev IR

Market: Hog