GRIT Dust Bin Sensor

The GRIT Dust Bin Sensor monitors the fill level in a dust collector bin and reports to the GRIT Hub. Its Banner QS18VN6D diffuse infrared sensor has an adjustable sensing range up to 450 mm (18 in). Set and test the fill threshold with the material collected in your bin; reflectivity affects detection.

The remote sensor and alert light connect to the GRIT control unit. The QS18VN6D sensor has a standard 2 m (6.5 ft) manufacturer cable. Position the alert light within reach of the supplied lead. The included 12V DC, 2A power supply powers the complete GRIT assembly.



1. Remote alert light with magnetic or screw mounting
2. GRIT Dust Bin Sensor control unit
3. Banner QS18VN6D infrared sensor (standard manufacturer cable: 2 m / 6.5 ft)
4. 12V DC, 2A power supply

Installation and Configuration

The instructions to install and configure your Dust Bin Sensor within the GRIT App are listed below.



Step 1:
Drill a 3/4 in hole in the bin lid or sidewall at the selected sensor location. Fit the sensor through the hole and secure it with the supplied nuts. Keep its sensing face clear of obstructions.



Step 2:
Remove the bottom nut from the bin debris sensor and place the sensor through the hole.



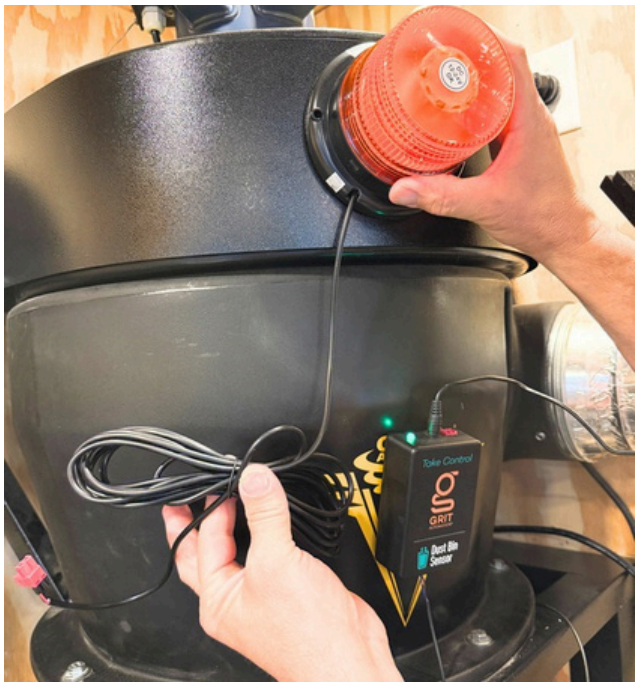
Step 3:
Replace and tighten the nut against the lid. Keep the sensor high enough to avoid damage when removing or replacing the lid.



Step 4:
Adhere the device to your dust collector using the provided VHB tape after cleaning the area.



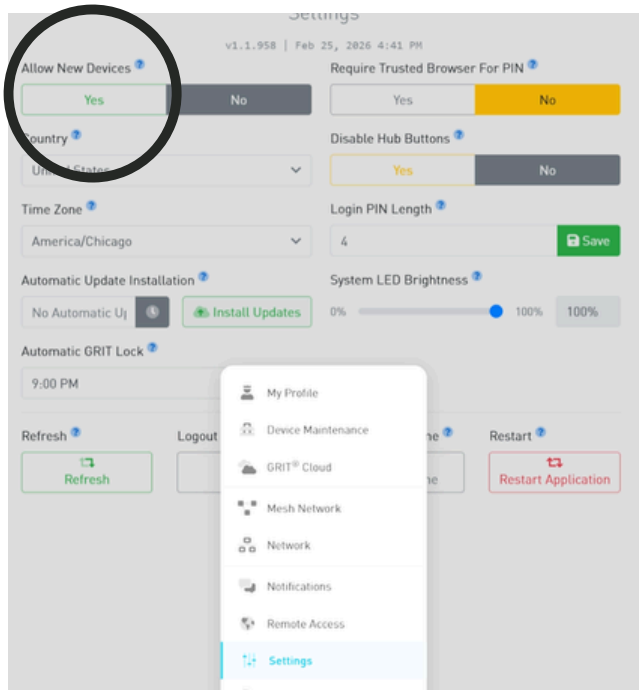
Step 5:
Plug the supplied 12V DC, 2A power supply into the Dust Bin Sensor control unit, then into a 120V outlet.



Step 6:
Mount the alert light in a visible location. It can be mounted magnetically or with the provided mounting hardware for maximum shop visibility.



Step 7:
Plug the red terminal attached to the alert light into the red terminal at the top of the Dust Bin Sensor device.

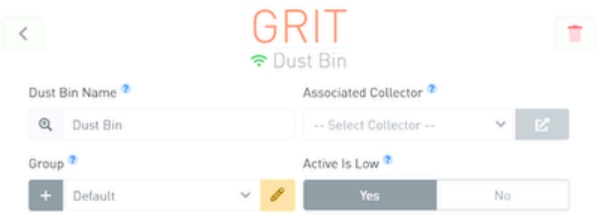


Step 8:
With the device installed, Bind the Dust Bin Sensor to the Hub.

Admin-->Settings-->Allow New Devices set to ‘Yes’

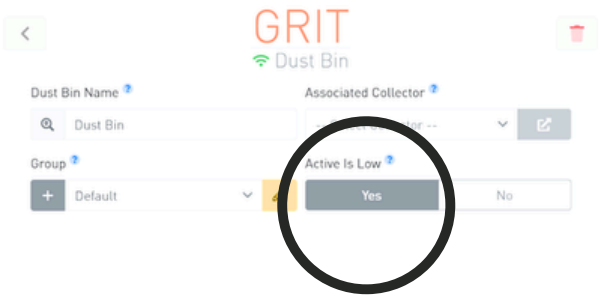
or

Press the center, blue Bind button on the front of the Hub

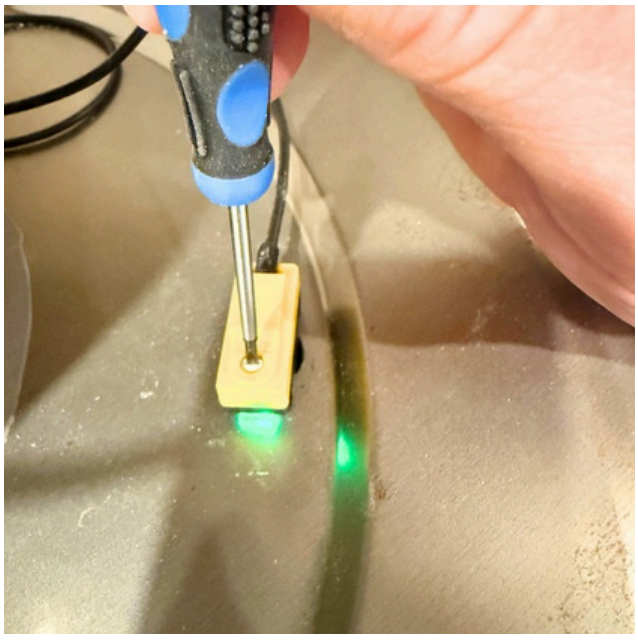


Step 9:
Enter the configuration screen for the dust bin sensor in the GRIT App.

Devices-->Dust Bin--> *select specific dust bin sensor if more than one*



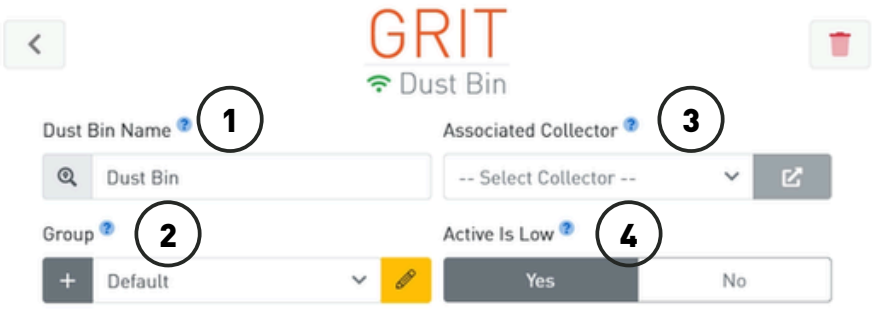
Step 10:
Select 'Yes' for 'Active is Low' setting.



Step 11:
The sensor mounted through the lid of the dust bin can be adjusted to detect any preset fill level (up to 450mm). The amount of open space between the sensor and the fill level can be changed using the small screw located on top of the sensor.

Configuration

Devices-->Dust Bin--> *select specific dust bin sensor to configure*





1. Editable name field
2. Editable device grouping
3. Select the associated dust collector
4. The ‘Active is Low’ setting will always be set to ‘Yes’