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PRODUCT INFORMATION BULLETIN

DUSTMAN
Dust Suppression System
MODEL 60-8000

DESCRIPTION

The DUSTMAN is a dust suppression system designed to control dust at conveyor transfer points. It consists of three factory assembled components: a control unit, a solenoid assembly and a spray bar & hose assembly. Synchronized sprays operate only as needed, eliminating dust, yet preventing belt slippage due to excess moisture.

INSTALLATION

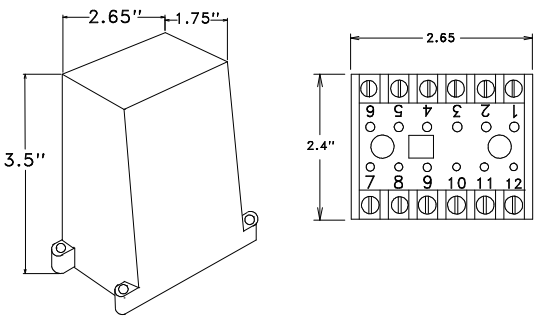
DISCONNECT AC power before proceeding with installation.

1. Mount the DUSTMAN socket inside an existing control panel or other suitable protective enclosure (starter, control box, etc.)
2. Make the following connections on the socket:

TERMINAL	CONNECTION
1	Sensor - Common (-)
2	Sensor - Positive (+)
3 - 4	No Connection
5 - 6	120 VAC Input
7-8-9-10	No Connection
11 - 12	120 VAC Output To Solenoid Valve

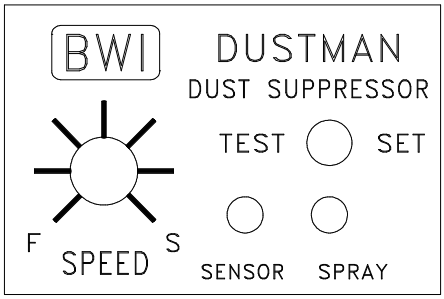
3. Install sensor at roller. See Sensor Installation Section.
4. Install spray bar over conveyor belt.
5. Attach waterline to solenoid assy.

DIMENSIONS



Allow for 5.25" total height with module in socket

CONTROLS AND INDICATORS



SET-UP AND TESTING

NOTE: Calibration should be performed with the belt running AND coal on the conveyor. (SENSOR LED should be blinking).

1. Turn SPEED control CCW until it stops, (approx. 7 o'clock) Apply 120 VAC to control unit.
2. Turn SPEED control CW until the SPRAY LED is illuminated.
3. A momentary TEST/SET SWITCH is provided to test the system after calibration. Holding the switch in the "TEST" position will simulate a loss of sensor signal, which will shut the spray off.
4. Holding the switch in the "SET" position, bypasses the electronics and allows the solenoid to energize.

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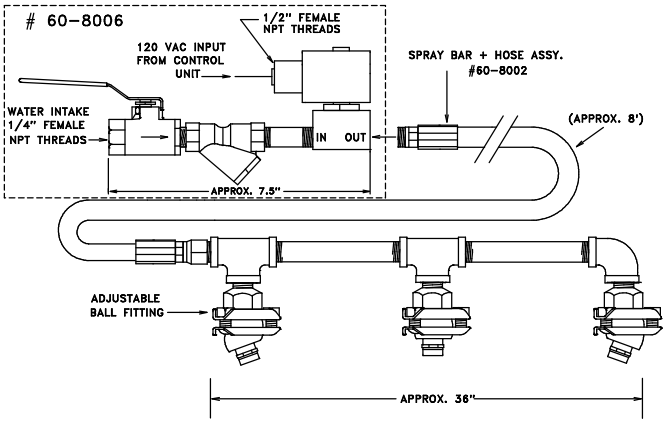
CONTROL UNIT SPECIFICATIONS

AC Input	120 VAC 20 W
Fuse Protected	2 amp
Speed Range	60 - 800 RPM
Spray Output	120 VAC 360 W Maximum
Response Time	1 Second or Less
Enclosure	ABS Plastic

REPLACEMENT AND OPTIONAL PARTS

Control Module	60-8001
Mounting Socket	60-8003
Variable Reluctance Sensor, General Mount	10-7003
Aluminum Prox Sensor, Threaded Mount	10-7139
Solenoid Valve Assembly	60-SOL-500
Spray Bar & Hose Assembly	60-SPRAY

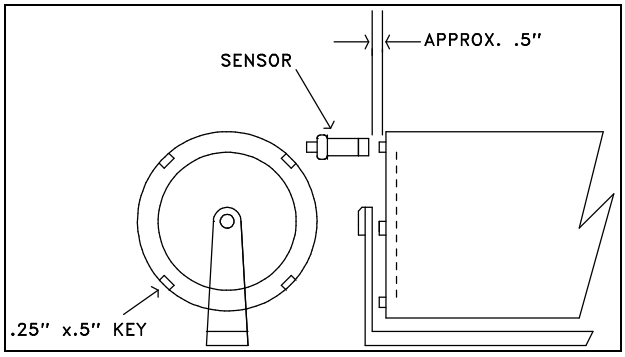
HARDWARE SPECIFICATIONS



AC Input	120 VAC 6W
Maximum Water Pressure	500 P.S.I.
Minimum Water Pressure	0 P.S.I.
Maximum Water Temperature	180 Degrees Fahrenheit
Gallons Per Minute @ 400 P.S.I.	1.9 GPM

SENSOR INSTALLATION

1. Select the roller to be monitored. Adjust roller so that it spins **only** when material is passing over it.
2. Affix a target on the roller or shaft. Target should be a piece of key-stock at least 1/4" x 1/4". Dents and notches are not recommended as targets.
3. Mount sensor firmly with hose clamps or U-bolts to prevent it from moving or working loose, **TAPE IS NOT RECOMMENDED AS A FASTENER.**
4. Before tightening, place sensor close enough to the target(s) to produce a strong, steady blinking on the sensor-head LED. The LED should blink in direct proportion to the roller speed. Effective distance between sensor and target(s) is approximately .25" to .75" depending on target mass and roller speed.



SENSOR SPECIFICATIONS

Dimensions	4" x 1.3" O.D.
Sensor Type	Variable Reluctance Failsafe Output
Sensor Power Requirement	Current Limited 12VDC from Control Unit
Sensor Cable	Unshielded Twisted Pair 16/2
Distance	Sensor to Control Unit - 2 Miles Max
Minimum Sensing Speed	60 RPM

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