

CONVEYOR BELT PROTECTION

BCD CONTROLLER

The BCD CONTROLLER provides a relay interface between a tilt type probe and the conveyor control system. In addition to the relay output, an adjustable timer allows the unit to be set to avoid spurious trips caused by material striking the probe. The timer setting defines the amount of time which the tilt switch must be activated in order to latch the relay. Once the controller has been tripped, the relay will remain latched until either the local or external reset input is energized. The activation delays can be field adjusted from instantaneous to nine (9) seconds. The controller also comes standard with a bi-color high intensity LED that indicates green for normal and red for a trip, strobe light, and (2) 105 db piezo electric horns to indicate a trip status.

Specifications:

Power Requirements: 100-240 VAC 50/60Hz.

Relay: 120 VAC 12 Amps.

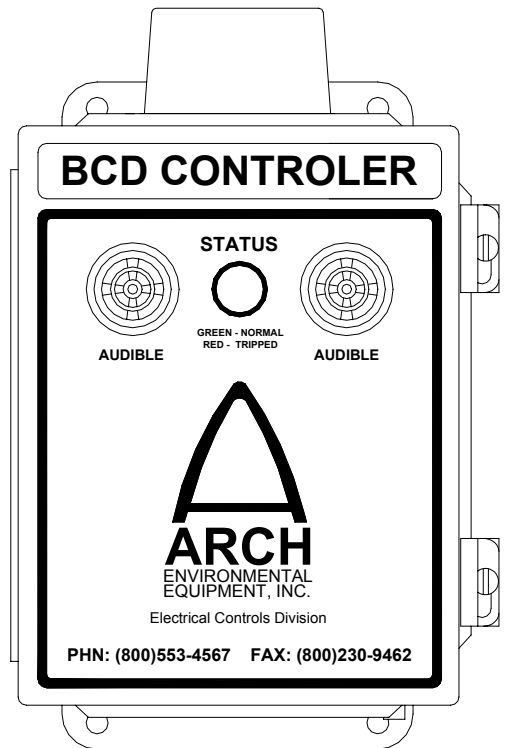
Switch: One normally open and one normally closed contact.

Reset: Internal and External (N/O Dry Contact).

Visual indications: bi-color high intensity LED and Red Strobe Light.

Audio Indication: (2) 105 db Piezo Electric Horns.

Enclosure: 8" x 6" x 3"



BCD PROBE

The blocked chute detector is a tip over switch mounted inside the chute to detect any restriction of material flow within a transfer point. Blockage which causes the switch to tilt more than 15° will activate the switch.

The switch consists of a 360° **NON-MERCURY** micro tilt switch that activates at 15° and resets at 10°. The housing is constructed of 85 durometer urethane for maximum durability in the roughest environments.

Specifications:

Length: 12" **Overall:** 14.91"

Diameter: 2.5"

Electrical Connection: 2 conductor 14 AWG

Electrical Specifications: (Not using ARCH's Controller)

120V 60Hz 1.7A

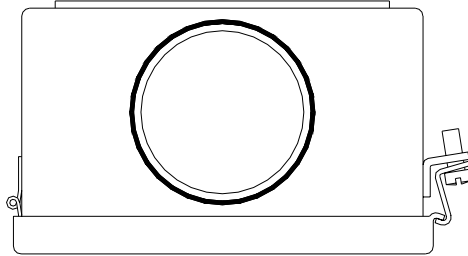
240V 60Hz .75A

12VDC 1A

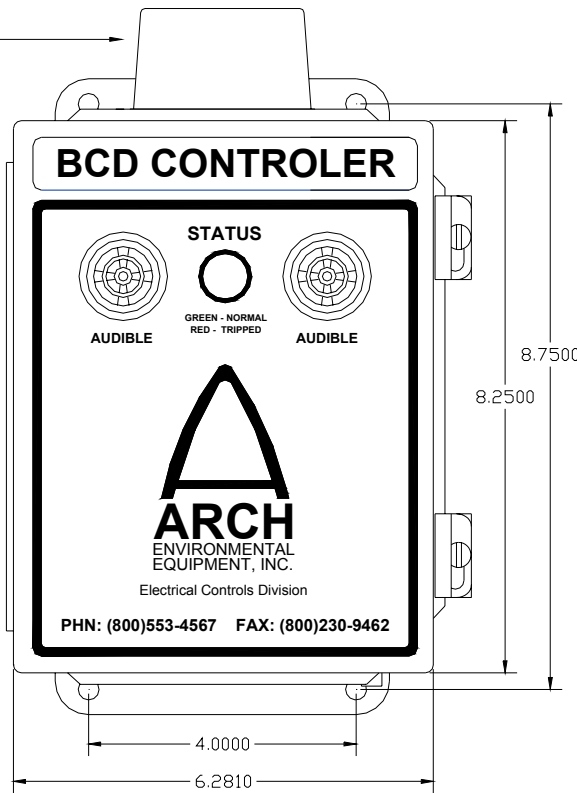


BCD DIMENSIONS

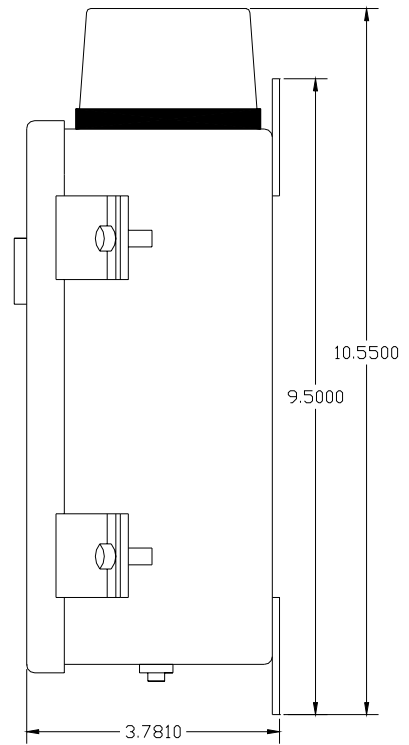
TOP VIEW



RED STROBE LIGHT

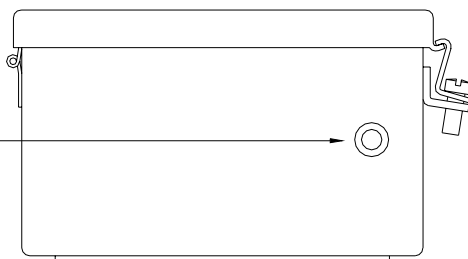


FRONT VIEW



SIDE VIEW

RESET BUTTON



BOTTOM VIEW

PROBE DIMENSIONS

