

MODEL 835 TILT SWITCH FOR LEVEL SENSING

TS835

FEATURES

- EASY TO INSTALL
- RUGGED & RELIABLE
- FROM 1 TO 4 POINTS IN A SINGLE ENCLOSURE
- -40 TO 220°F SERVICE
- SANITARY PROBES
- LONG LIFE PROBE CABLE
- PROGRAM RELAY ACTION
- HEAVY DUTY RELAY
- OPTIONAL INTRINSICALLY SAFE PROBE BARRIER
- OPTIONAL TIME DELAY

TYPICAL APPLICATIONS

- HIGH SILO LEVEL
- CRUSHER BOWL LEVEL
- EMPTY CONVEYOR ALARM
- CLASSIFIER SCREEN OVERLOAD
- CONVEYOR BELT OVERLOAD
- HOPPER RAILCAR LOADING TOOL
- CONVEYOR BELT MISALIGNMENT
- VIBRATORY FEEDER STARVATION
- PLUGGED CHUTE ALARM
- DIFFERENTIAL LEVEL CONTROL

THEORY OF OPERATION

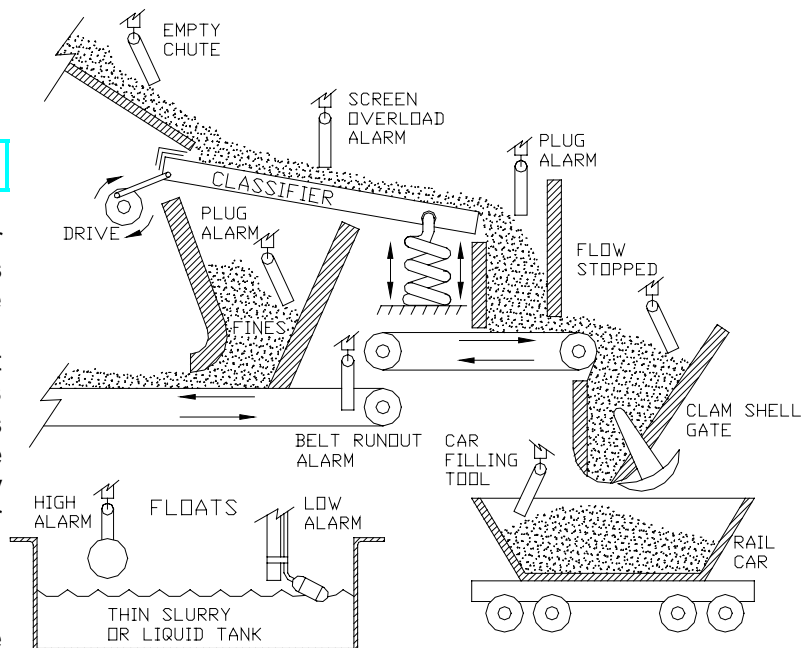
The Series 835 detects the presence or absence of material at the elevation of its probe. The arriving material pushes the lower end of the hanging probe to one side. An internal drop of liquid acts as a tilt sensor and signals when the probe moves to an angle of 15° away from vertical. This tilt signal is handled in accordance with the programmed setup. The output relay energizes if the probe remains vertical for the preset time period.

The interconnecting cable is very flexible. Each wire has rubber insulation. The overall jacket is abrasion resistant rubber.



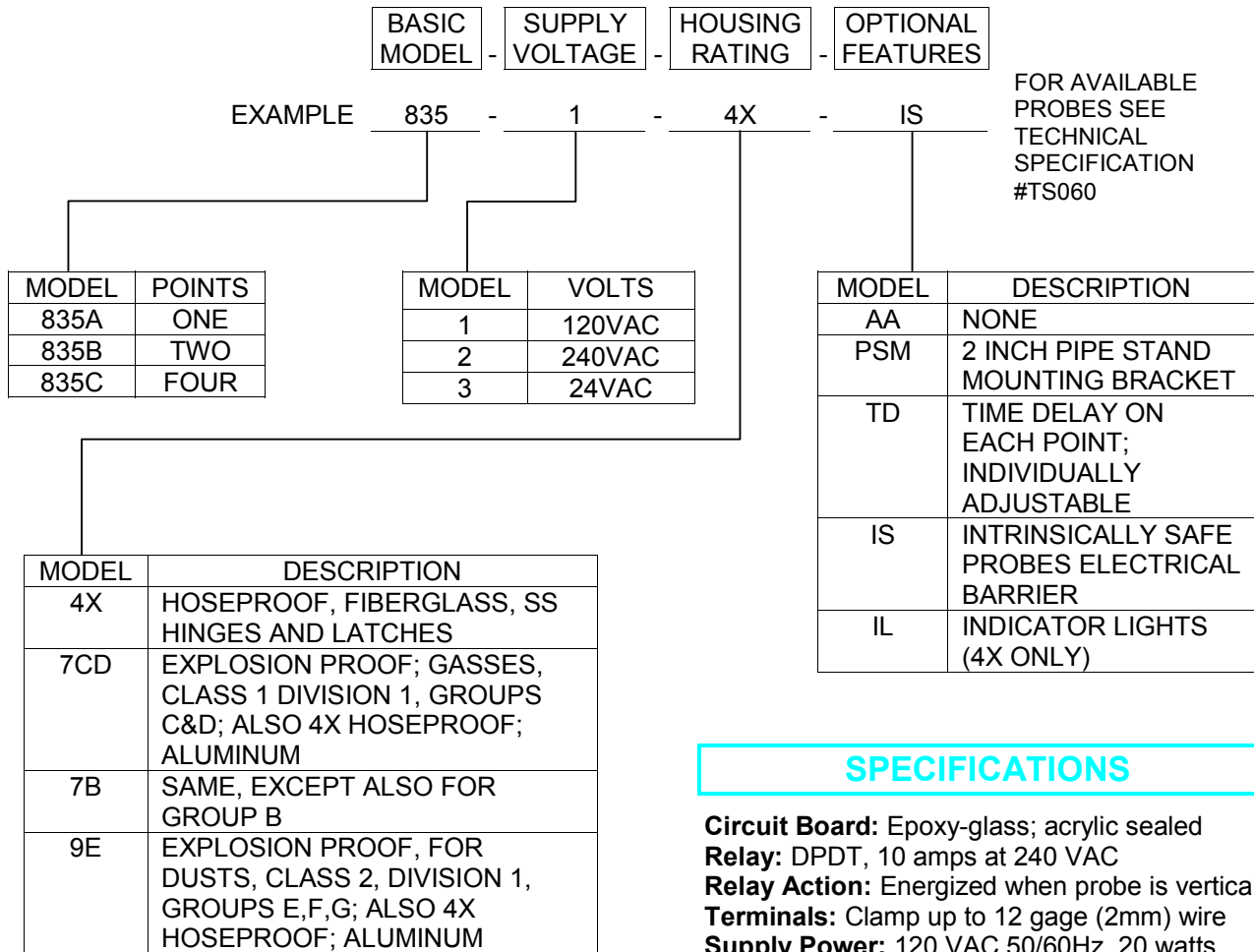
Model 835 With Model 60 Probe

TYPICAL INSTALLATIONS



DELTA CONTROLS Corporation

MODEL NUMBERING SYSTEM



INTRINSICALLY SAFE PROBE

An intrinsically safe electrical barrier is optional to limit the energy available to the probe/cable to a level too low to cause an explosion at the probe when it is located in the hazardous area. The barrier is FM, CSA, and CENELEC approved for Class I, II & III, Divisions 1 & 2, Groups A, B, C, D, E, F, & G; The barrier has a replaceable fuse.

MADE IN THE USA
BY DELTA CONTROLS

SPECIFICATIONS

- Circuit Board:** Epoxy-glass; acrylic sealed
- Relay:** DPDT, 10 amps at 240 VAC
- Relay Action:** Energized when probe is vertical
- Terminals:** Clamp up to 12 gage (2mm) wire
- Supply Power:** 120 VAC 50/60Hz, 20 watts
- Operating Temperature:** -20 to 190°F (-30 to 90°C)
- Time Delay:** From 1 to 90 seconds on return to vertical position
- Status Indicators:** included

OPTIONAL FEATURES

- Lamps:** Two each, door-mounted, red & green, output contacts are then SPDT:
"A" Model Only
- Differential Controls:** High-Low using two probes; field selected
- Intrinsic Safety Probe Barrier:** Mounted is a separate housing, replaceable fuse, FM, CSA, CENELEC
- Housing:** White epoxy coating, sanitary

DELTA CONTROLS Corporation
585 FORTSON STREET
SHREVEPORT, LA. 71107 - USA
PHONE: 318-424-8471 FAX: 318-425-2421

e-mail: delta@deltacnt.com Web Site: <http://www.deltacnt.com>

