

# MODEL DLC

## DIAPHRAGM LEVEL CONTROL

### PRESSURE ACTIVATED PLUGGED CHUTE DETECTOR

The Model DLC is a flush-mount, pressure-activated, diaphragm style level control and plugged chute detector. The Model DLC has 2 dry (unpowered) microswitches that activate when material within the bin or chute presses upon the diaphragm face. The unit should be mounted on the vertical side wall of the bin, hopper or chute. The unit may also be mounted on the sloped portion of the chute (as long as material flows freely and does not “bridge”). The Model DLC is also used as a high level limit in a screw conveyor, transfer point or auger box.

The Model DLC can be used as a high-level switch, a low-level switch, or a plugged chute detector. Additionally, the Model DLC may also operate as a material presence control on a conveyor belt, and a high level indicator in a crusher box.

The Model DLC is commonly used when intrusion into the bin is not acceptable, not possible or not allowed. The Model DLC does not intrude on the material flow stream.

#### DLC MODELS AVAILABLE

MODEL	DESCRIPTION	SHIP WT.
DLC-2R	2 Single Pole Double Throw (SP/DT) Microswitches and neoprene rubber diaphragm*	8 lbs.
DLC-2S	2 Single Pole Double Throw (SP/DT) Microswitches and stainless steel diaphragm*	8 lbs.

\*GENERAL PURPOSE NEMA TYPE 4X

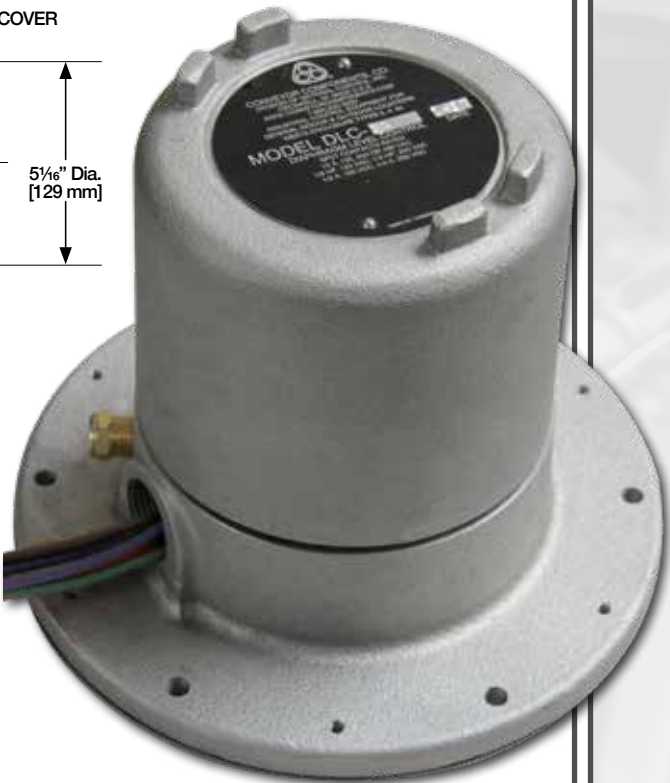
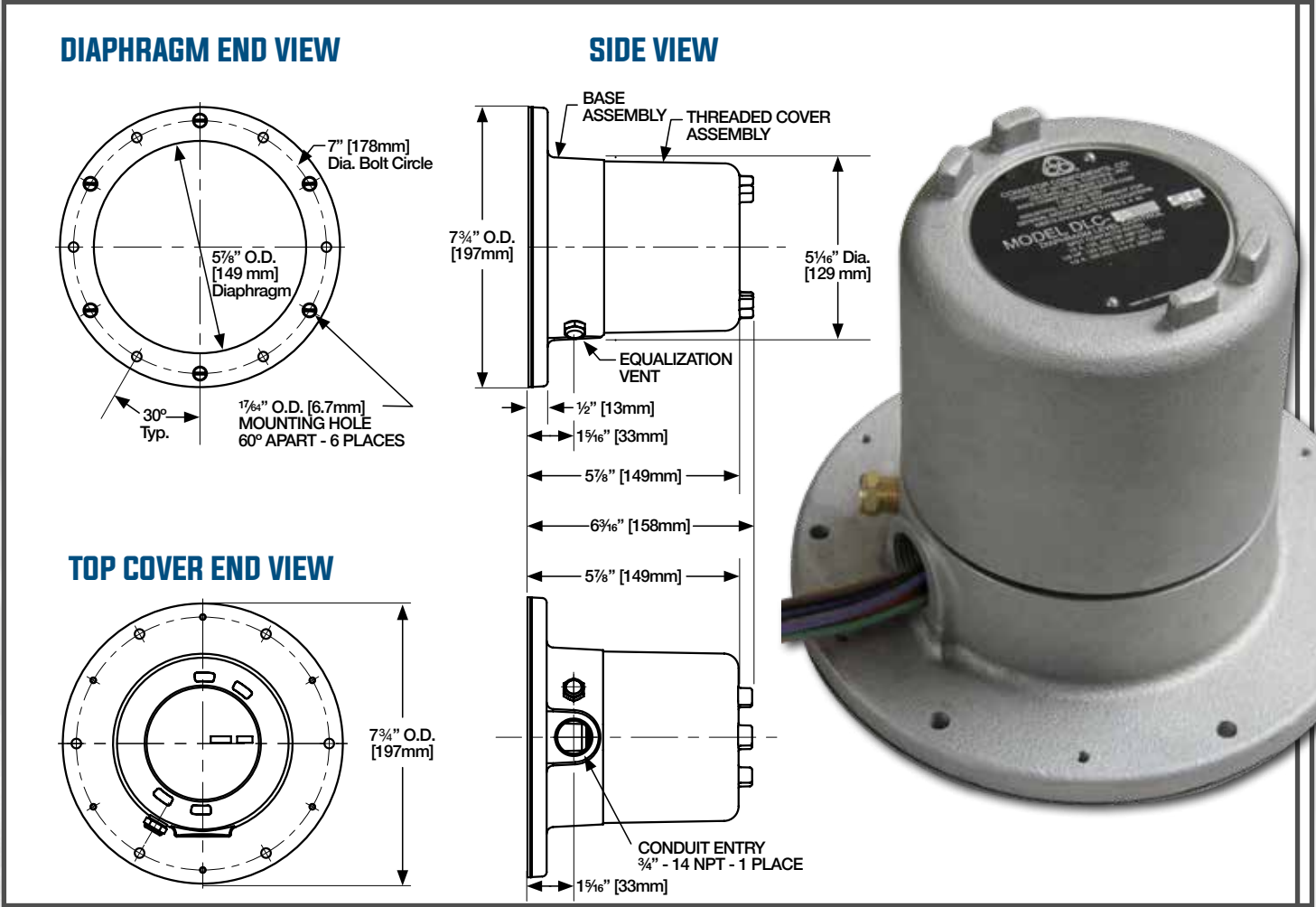
#### DLC REPLACEMENT PARTS

MODEL	DESCRIPTION	SHIP WT.
20250005	Replacement neoprene rubber diaphragm	1 lb.
20250004	Replacement 302 stainless steel diaphragm	2 lbs.

#### TECHNICAL SPECIFICATIONS

- The diaphragm material is neoprene rubber (50 durometer, 0.031” thick) or grade 302 stainless steel.
- Diaphragm requires a material density of 25 pcf or higher for proper activation. Contact factory for use on lower density materials.
- The temperature range is 32°F to 104°F (0°C to 40°C).
- The control has two dry, unpowered microswitches rated for 15A @ 120 VAC, 240 VAC, and 480 VAC; 1/2 amp @ 125 VDC and 1/4 amp @ 250 VDC.
- Each microswitch has a COMMON, NORMALLY OPEN and NORMALLY CLOSED contact.
- General purpose (weatherproof) units have (1) 3/4” NPT conduit opening.
- The general-purpose controls are designed to meet NEMA Type 4X weatherproof and dust-tight environments.
- Bronze air vent allows equal pressurization of both sides of the diaphragm.
- Threaded screw-on cast aluminum cover with spanner wrench bosses and rubber o-ring gasket.
- The mounting flange dimension matches the Roto-Level Control mounting plate bolt and hole pattern so it can be interchangeable with the Model CR unit. Fiber mounting gasket included.
- Optional black epoxy coating available, add “E” to suffix of model number.
- Indication level may vary with material flow, material density and bin design.

## MODEL DLC DIMENSIONAL INFORMATION



MODEL DLC MOUNTED IN A BIN TO  
MONITOR THE LEVEL OF SOYBEANS

