

Sample Specification for Plugged Chute Detector (Model 9830-PCD)

The chute sensor shall be of a high frequency capacitance technology to monitor for the dielectric change between the material in a loose free fall air mix and a plugged condition.

A 2-conductor shielded cable will run from the sensor to the control unit that can be mounted up to .8 Km distance. The sensing probe shall be of UHMWE and 316 SS wetted parts.

All calibration, power and control wiring shall be at the wall mounted Type 4X control unit. Power input shall be specified as 24vdc, 120 vac or 230 vac.

A time delay and sensitivity adjustment shall be standard to avoid nuisance alarms. The alarm relay shall be one DPDT, 5 amp dry contact.

The sensor is to be sized to the application. A typical 6" x 6" cut in the chute wall accommodate the sensor. The sensor thickness will be specified to make the flat sensor face flush with the internal chute wall.

The standard probe assembly shall carry a CSA Class 1 Div 1 Approval.

An optional Intrinsic Barrier may be specified to make the sensor assembly Intrinsically Safe where applicable (Part. #A00071)

The system will comprise of

- A. Controller Part # A00272 (24 vdc)
 - or Part # A00273 (120 vac)
 - or Part # A00274 (230 vac)

plus

- B. Sensor Part # A00178

The controller and sensor shall be the Model 9830-PCD as manufactured by Arjay Engineering, www.ArjayEng.com.