Sample Specification for Plugged Chute Detector (Model 2852-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 1 km distance. The sensing probe shall be of UHMWPE and 316 SS wetted parts.

All calibration, power and control wiring shall be at the wall mounted Type 4X/IP65 control unit. Power input shall be specified as 24vdc or 80-240 vac.

A time delay and sensitivity adjustment shall be standard to avoid nuisance alarms. The alarm relays shall be two SPDT, 10 amp dry contact. An RS-485 Modbus communication port will be standard.

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

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

The system shall be the Model 2852-PCD and sensor as manufactured by Arjay Engineering Ltd., www.ArjayEng.com.