

RF POINT LEVEL SENSOR



INSTALLATION INSTRUCTION

1. GENERAL

The **JAYASHREE** RF type Point Level Sensor is suitable for sensing Top Level (Single Point Sensing) of bulk material.

2. SPECIFICATIONS

2.1 MONITORING UNIT-

2.1.1	Type	: SW 6201-MU
2.1.2	Enclosure	: CAST ALUMINIUM
2.1.3	Protection Grade	: IP 65
2.1.4	Paint	: LIGHT GRAY EPOXY (631 OF IS 5)
2.1.5	Gasket	: NITRILE RUBBER
2.1.6	Supply	: 110V & 240V AC $\pm 10\%$, 50Hz $\pm 5\%$
2.1.7	Output Contacts	: 2 NO + 2 NC
2.1.8	Contact Rating	: 5A. RES. @ 240 V AC, 50Hz

2.2 CHUTE BLOCK SENSOR-

2.2.1	Type	: SP 6201 $\varnothing 190$
2.2.2	Size	: $\varnothing 190 \times 70$
2.2.3	Sensing Head	: SS 304
2.2.4	Mounting Plate	: MS
2.2.5	Surface Finish	: NICKEL CHROME PLATED
2.2.6	Terminal Box Protection Grade	: IP 65

3. INSTALLATION

3.1 MECHANICAL-

- 3.1.1 The Sensor is to be mounted on top or side of the chute / silo where the level is to be monitored.
- 3.1.2 The unit is provided with 4 no. mounting holes on 154 P.C.D. The unit is to be mounted by 4 no. M8 screws.
- 3.1.3 There should be a opening / cutout of 135 MM dia on the chute or silo.
- 3.1.4 The monitoring unit should be mounted within a distance of 5 meters of the sensor.

3.2 ELECTRICAL-

- 3.2.1 Connect appropriate power supply to control unit as shown in terminal diagram.
- 3.2.2 Connect the control unit to the sensor by the special 2 wire shielded cable provided with the unit.
- 3.2.3 Connect the potential free contacts by separate cable to your control circuit.
- 3.2.4 The mounting plate must be firmly electrically connected to the chute body and both should be properly connected to earth.

4. COMMISSIONING

- 4.1 Switch on the power supply to unit the 'Red' LED for supply ON
- 4.2 The Monitoring unit is provided with 2 no. adjustable presets, one each for sensitivity and for nuisance tripping delay.
The sensitivity preset is factory set to sense coal lumps at a gap of 15 MM. Normally this should not be required to be changed.
The nuisance tripping delay is adjustable from 0.5 to 10 Sec. and is factory set at 3-4 Sec. This may be changed as per system requirement.

5. OPERATION

Whenever the coal level reaches the sensing zone the output relay will operate after nuisance delay.
The sensor is immune to falling material or any changes in temp.