

# DISC RF ADMITTANCE FOR BLOCKED CHUTE DETECTION- 'DRFA'

*Rugged and reliable point level switch to detect blocked chute condition in quarry, mining or any material handling plants to prevent corresponding spills for smooth operation of a process.*

## CONSTRUCTION & OPERATION

It's a two-part system consisting of a disc type sensor and a control unit. The sensor is mounted on the chute and wired to the controller. The increased presence of material in front of the sensor increases the capacitance and initiates an o/p relay.

## SALIENT FEATURES

- Flush mounted probe forms a part of chute wall, nothing protrudes to interfere or obstruct material flow
- Minimum maintenance 'no moving parts'
- Three element coat guard technique to ignore any built up or coating or dust condition leading to false signals
- Fail safe design
- Erosion resistant UHMWPE insulation
- Option of adjustable switching delay

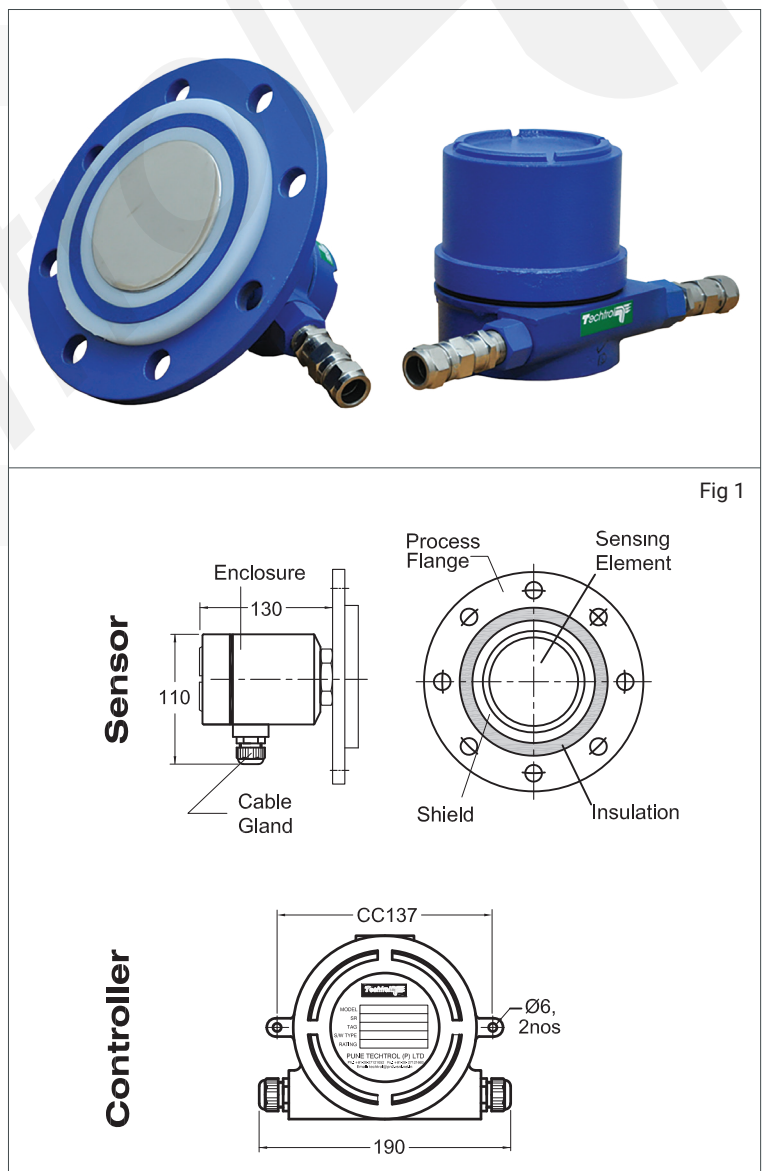


Fig 1

## SPECIFICATIONS

### System : Two Part

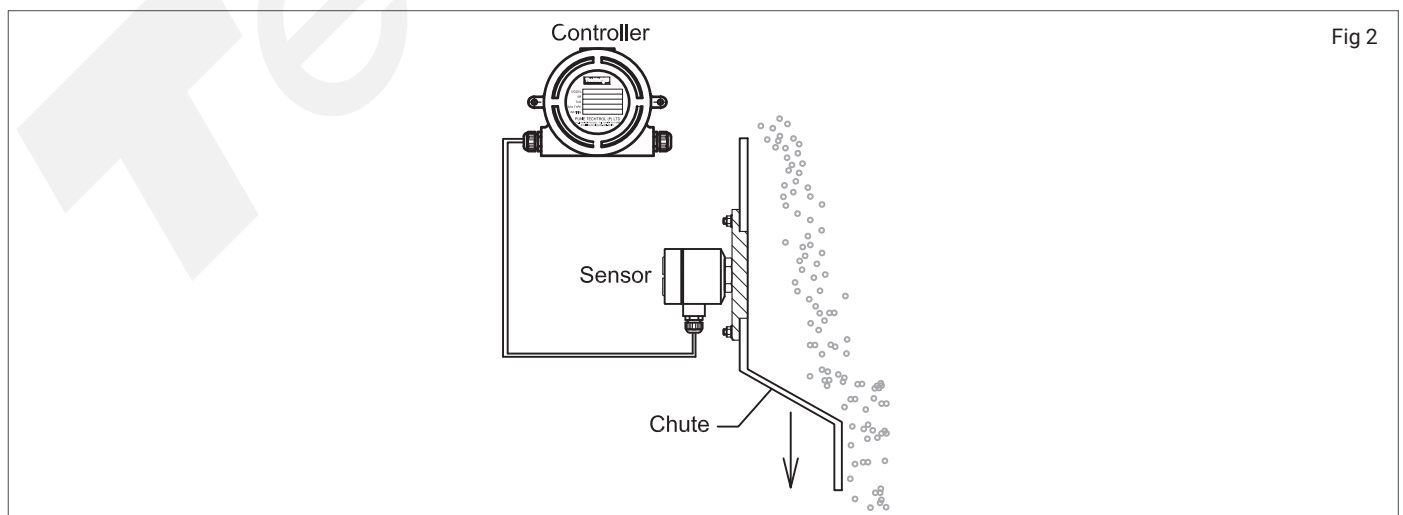
#### Probe

Enclosure x Conduit Conn.	: Cast Al. Powder Ctd. WP IP65 x PG13.5 Cable Gland : Cast Al. Powder Ctd. Exd Gr. IIB x ½" NPT DC Cable Gland : SS304 WP. IP65 x PG 13.5 Cable Gland
Sensing Element	: SS304
Insulation	: UHMWPE or PTFE
Pr. Conn./ Shield Material	: CS, SS304 or SS316
Process Connection Type	: 4" NB ASME 150# Flange
Max. Optg. Temperature	: 70°C (UHMWPE), 200 °C (PTFE)

#### Control Unit (Remote)

Enclosure x Conduit Conn.	: Cast Al. Powder Ctd. WP IP65 x PG13.5 Cable Gland (2 nos.) (Size - 115 mm dia x 140 mm Ht.) : SS304 WP IP65 x PG 13.5 Cable Gland (2 nos.)
Supply	: 230 VAC or 110 VAC or 24 VDC ±10%
Output	: 1 DPDT Relay Contact, 5A, 250 VAC (Resistive)
Power Consumption	: 2 VA
LED Indication	: Green-Normal; Red-Alarm; Yellow- Power On (inside the enclosure)
Safety Operation	: Fail Safe High or Low (Field Selectable)
Switching Delay (Optional)	: Adjustable from 2 to 20 sec probe free or probe covered
Ambient Temperature	: 0 to 60 °C
<b>Signal Cable</b>	: Low capacitance, co-axial 3 core PVC cable x 5 mtrs long

## INSTALLATION



## MODEL IDENTIFICATION

	DRFA -					
<b>1. Probe Enclosure x Conduit Connection</b>						
Cast Al WP IP65 x PG 13.5 Cable Gland	J					
Cast Al. Exd Gr. IIB x ½" NPT DC Cable Gland	L					
SS304 WP x PG 13.5 Cable Gland	S					
Other	O					
<b>2. Insulation</b>						
UHMWPE (70 °C)		U				
PTFE (200 °C)		T				
Others		O				
<b>3. Process Connection MOC</b>						
CS			M			
SS304			N			
Others			O			
<b>4. Control Unit Enclosure x Conduit Connection</b>						
Cast Al. WP IP65 x PG 13.5 Cable Gland				J		
SS304 WP x PG 13.5 Cable Gland				S		
Others				O		
<b>5. Switching Delay</b>						
Not Provided					W	
Provided					P	
<b>6. Supply</b>						
230 VAC						1
110 VAC						2
24 VDC						3

All dimensions in mm except specified

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