ACROSS SCREEN BLOCKED CHUTE DETECTION SYSTEM

As used by major Australian coal washeries.

Reliable detection

Measurement Solutions Across Screen System reliably detects blockages or build ups across screens and chutes while ignoring the effects of fines build up (coatings).

Intelligent Electronics Save Time and Money

• UNIQUE! - Ignores changes in dielectric or conductivity.

• Automatically recognizes and ignores coatings to prevent false alarms.

• Universal power supply automatically detects & adjusts to input power source.

Economical Without Sacrifice

• Retains superior performance.

• Less maintenance than other technologies; no moving parts to hang up or wear out.

Lower Cost of Ownership

The across screen system continues to save with little or no maintenance compared with other technologies. Further, the sensor can be lengthened or shortened in the field, saving need for additional purchases.

Universal Power Supply

The Across Screen electronics use a universal power supply module that can be powered from a 19 to 250 Vac or 18 to 200 Vdc supply without moving jumpers

Stainless Steel Enclosures

For ultimate protection against corrosion.

Customized Solutions

Across Screen Systems can be customized to meet customer requirements.

SPECIFICATIONS

Technology:

RF Admittance.

Modes Of Operation:

High and Low Level.

Response Time:

Less than one second.

Ambient Electronic Temperature:

-40 to 70°C (-40 to 158°F) FM, CSA

Storage Temperature:

-40 to 85°C (-40 to 185°F).

Indicators:

LEDs: Green Power, Red Relay 1.

Time Delay:

0-60 seconds, forward or reverse-acting.

Supply Voltage:

19-250 VAC

18-200 VDC

Auto-detecting without jumpers.

Power Consumption:

2 watts maximum.

Relay Contacts:

DPDT dry contacts at 5A, 120Vac.

Maximum Contact Load:

5A/30 VDC

5A/250 VAC

Maximum Switching Capacity:

2000 VA/150 Watt.

Minimum Contact Load (DC):

100 mA/12 VDC

0 -200 mA / 12 VDC (Optional)

Housing:

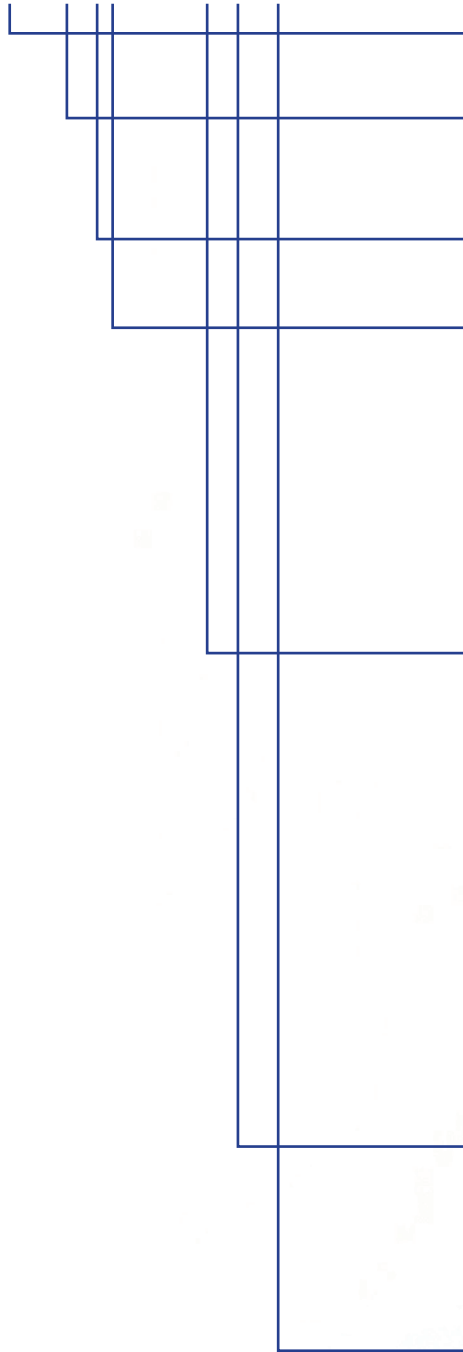316 Stainless steel enclosure with key lock.

Ingress Protection:

IP66

MEASUREMENT SOLUTIONS

MODEL NUMBERING

APML1-0700-A1BF-SS

Technology
APML.   RF admittance electronics

Output
1.   DPDT Relay, dry contacts, 5A, 120VAC (Min 100 mA, 12 VDC)
2.   DPDT Relay, gold plated contacts (Max 200 mA / 12 VDC)

Housing
0.   316 stainless steel enclosure, IP66

Cable
2.   3 m G.P. cable
3.   7.6 m G.P. cable
4.   10.6 m G.P. cable
5.   15.2 m G.P. cable
6.   23 m G.P. cable
7.   7.6 m Tri-Ax Cable
8.   15.2 m Tri-Ax Cable
9.   23 m Tri-Ax Cable
Z.   User defined

Mounting Type

Insertion length		Triclamp	
A1B . ¾" NPT 316SS		C5B. 2.5" TriClamp 316SS	
Others on request.		Others on request.	

ANSI flanges

DA1.	1"	150# RF 316/316L SS	DA2.	1"	150# RF CS
DB1.	1½"	150# RF 316/316L SS	DB2.	1½"	150# RF CS
DC1.	2"	150# RF 316/316L SS	DC2.	2"	150# RF CS
DD1.	2½"	150# RF 316/316L SS	DD2.	2½"	150# RF CS
DE1.	1"	300# RF 316/316L SS	DE2.	1"	300# RF CS
DF1.	1½"	300# RF 316/316L SS	DF2.	1½"	300# RF CS
DG1.	2"	300# RF 316/316L SS	DG2.	2"	300# RF CS
DH1.	2½"	300# RF 316/316L SS	DH2.	2½"	300# RF CS
DI1.	3"	150# RF 316/316L SS	DI2.	3"	150# RF CS
DJ1.	3"	300# RF 316/316L SS	DJ2.	3"	300# RF CS
			Others on request.		

Insertion length
A.   152mm (6")
C.   305mm (12")
F.   457mm (18")
H.   305mm (12")
Z.   User defined

Sensor head
SS.   316 SS condulet
SST.   316 SS tube condulet. Flying leads
AL.   Powder-Coated aluminum