



A higher level of performance

Application Reference

Self Cleaning Acoustic Switches for “Blocked Chute” applications on Conveyor Transfer Head Chutes, Wet Screens, Apron Feeders, in Mining Concentrators and Coal Preparation Plants

Application problem:

A mining company had problems with wet ore and clay, building up on their blocked chute tilt switches. When an actual blocked chute occurred in the chute the tilt switches were generally not operative. The tilt switch could only be checked manually and hosed down to remove the buildup. The tilt switch was not failsafe. The cost to the mine in lost production was extremely high.

Solution:

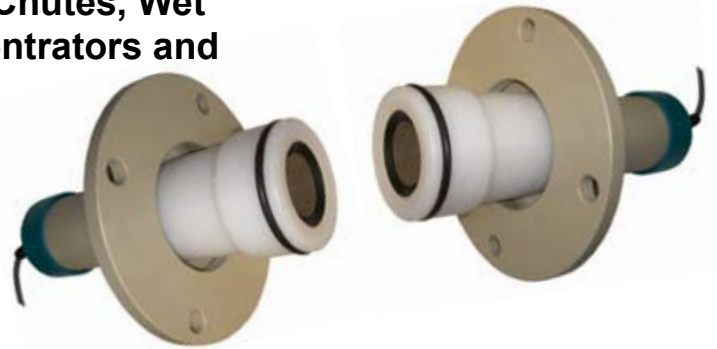
We selected a technology that was not affected by dielectric change and would “self clean” buildup that occurred on the operating diaphragms using the “Pressure Wave” produced from the low frequency Acoustic Switch pulse. Inside the head chute were water sprays and the conveyor scraper. The Acoustic Switch transducers were mounted below the conveyor pulley and provided a very fast response to a blocked chute condition. The Acoustic Switch is an intelligent “Blocked Chute” option that can be remote tested through a PLC and can be supplied with communication options such as HART, Foundation FieldBus, ProfiBus PA, DP, ModBus, DeviceNet, EtherNet etc.

Maximum operating range is >30 metres (100 feet). It comes with both UHMW wear plates and Titanium diaphragms as an option.

Ordering information:

GSASUS	Gladiator Remote Amplifier
AWRT-JB-01	Special Junction Box
AWRT20T4XXXC15AS	Transducers - Teflon face
AWRT15Y4XXXC15AS	Transducers - Titanium face

Hawk is a world leader in level, position and flow measurement, providing cutting edge equipment to the global industrial market. We have 30 years of experience and a record of success in a wide range of areas including mining/mineral processing, water supply/waste water, bulk material handling and chemical. Our on-going commitment is to provide industry leading technology and cost effective solutions.



Contact

Hawk Measurement Systems Australia
Phone: +61 3 9873 4750
info@hawk.com.au

Hawk Measurement US
Phone: +1 888 429 5538
info@hawkmeasure.com

For global representatives:
www.hawkmeasure.com