



A higher level of performance

## Application Reference

### Primary Crushers - Gyrotory

**Reliable level monitoring with failsafe high level and low level switches on Foundation Fieldbus communications for monitoring crusher "rockbox"**



#### Application problem:

The major problems with monitoring the crusher rockbox of a gyrotory crusher are:

1. Moisture and dust buildup caused by water sprays as truck unloads with high levels of dust.
2. Providing a self cleaning high high level switch to prevent the crusher jamming up.
3. Providing a high powered low level switch as an alternative to nuclear that is non intrusive that will penetrate through buildup on the walls.

#### Solution:

1. Level Transmitters: Even though the range is short we must use the low frequency 10kHz for the self cleaning properties. Beam angle is 6° total, cone made of polyurethane. If mounted down pipes, double flange to centre transducer.
2. High High switch: Low frequency 15kHz using special switch firmware. Fully failsafe with polyurethane cone.
3. Low level switch: High powered microwave to sense low level through possible buildup. Ceramic wear plate windows used.

#### Ordering information:

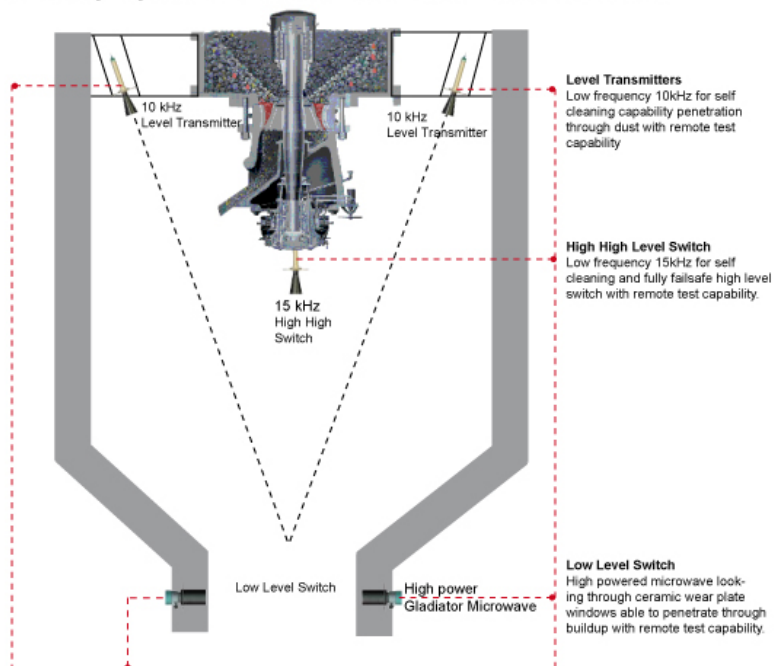
Contact the factory for specific part numbers.

#### Application guaranteed!

24 months from commissioning



### Primary Gyrotory Crusher "Rockbox" - Level Control



*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.*



**Communications: Foundation Fieldbus**  
By connecting the level transmitters, acoustic high high level switches and low level high powered microwave switches to the Foundation Fieldbus we are able to remotely test each individual device for continuity and operation to make the system 100 % failsafe.



## Contact

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