

PRODUCT APPLICATION NOTE

SN0104

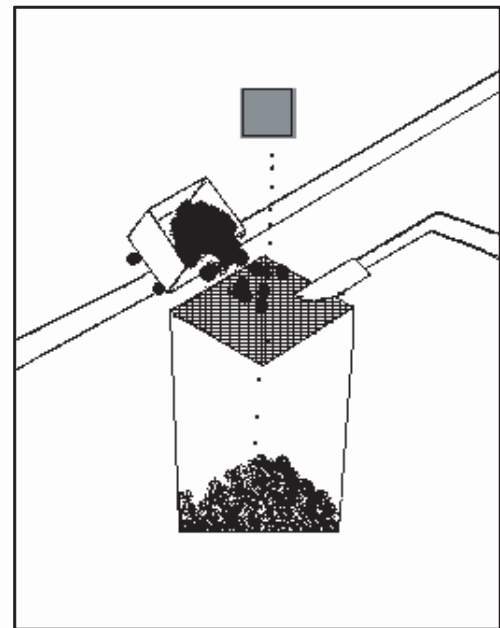
Industry:	Electric, Gas and Sanitary Services, Primary Metal Mining
Application:	Level monitoring
Optech Equipment:	Sentinel 3100
Application Description:	The customer required a sensor to monitor the level of ore in their rock breaker surge bin.

Optech installed its SENTINEL 3100, a NEMA 4 laser level monitor, at a large mining company. The company operates a rock breaker surge bin. A rail car dumps ore, which contains large rocks, onto a grizzly platform that separates the large pieces of rock from other material. A rock breaker breaks the rocks into smaller pieces, which then pass through the grizzly into the bin. The customer required a sensor that could measure the level of this bin through the grizzly mesh, with high background noise as well as moderate dust.

The Sentinel 3100 measured to the ore without interference from the grizzly or dust. The Sentinel 3100's narrow laser beam enables it to shoot through the grizzly, and Optech's last pulse logic allowed the beam to penetrate the dust. The Sentinel 3100 has been very reliable and consistent, resulting in a satisfied customer.

KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Measurements can be made in moderate amounts of dust
- Non-contact measurements
- Short setup time with no calibration required
- Measurements unaffected by temperature variations
- Measurements unaffected by background noise
- Narrow beam divergence allows the beam to shoot through narrow openings



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