

## PRODUCT APPLICATION NOTE

SN0504

<b>Industry:</b>	Primary Metal Industries, Pulp, Paper and Wood Mills
<b>Type of Application:</b>	Aluminum log length measurement
<b>Optech Equipment Used:</b>	Sentinel 3100
<b>Application Description:</b>	The customer required a method for determining the length of large aluminum logs before further processing.

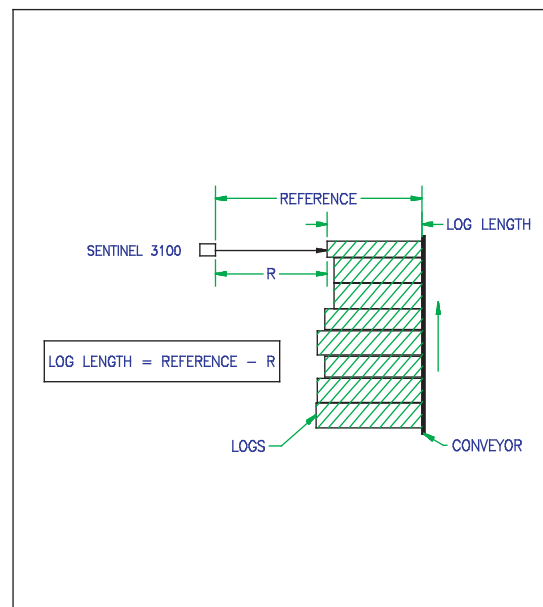
A large manufacturer of aluminum extrusion end products required a non-contact sensor to determine the length of very large aluminum logs moving along a conveyor before they are cut into smaller sections. The logs move along a conveyor at about 60 feet/minute. All logs are lined up against the same point on the conveyor, and this point is used as the reference range for the Sentinel 3100. At a certain point as each log moves along the conveyor, it intercepts the beam of the Sentinel 3100 and the unit produces a range measurement to the end of the log. The reference range minus the range to the log gives the log length.

The customer is very satisfied and would like to use another Sentinel 3100 further down the conveyor line where the logs are cut into smaller sections. The Sentinel 3100 would measure lengths on a continuous basis and report the cutting location.

The Sentinel 3100 has been installed for a similar application at a major pulp and paper company.

### KEY ADVANTAGES OF LASER TECHNOLOGY IN THE STEEL INDUSTRY

- Non-contact measurements
- Short setup time with no calibration required
- Measurements unaffected by temperature variations
- Measurements can be made to targets with temperatures of up to 1,500°C
- Measurements can be made even in turbulent air flow
- Measurements can be made in moderate amounts of dust



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