

Model WB-1351 Auto Slope Reference Sensor

This sensor provides a reference signal that can be used to automatically and continuously correct the output of a belt conveyor scale for:

1. Errors caused by changes in the inclined angle of the conveyor and
2. Extraneous output variations caused by vibration or movement in the conveyor assembly.

- Applications include rotary stacking conveyors, milling machine discharge conveyors, and in-place recycle trains.

This sensor provides a signal proportional to the sensed weight of a fixed reference mass.

1. Because this sensed weight varies with the incline of the conveyor in the same manner as the live load on the conveyor scale, this reference signal can be used to continuously and automatically affect the appropriate zero and span compensations so as to maintain conveyor scale measurement accuracy and stability.
2. Because this sensed weight varies in response to movement or vibration of the conveyor in the same manner as the conveyor scale output responds to these forces, this reference signal can be used to continuously and automatically correct the output to eliminate these extraneous signals.

- Passive sensor with no moving parts mounts directly to SYSTEMS model WB-xx weighbridge assembly.
- Requires no maintenance or adjustments other than initial setup.
- Permits typical reduction in slope induced errors of greater than 50:1. Slope induced errors for changes in slope of 0° to 30° are typically less than $\pm 0.15\%$.
- Permits typical reduction in low frequency extraneous signals caused by movements within the conveyor of 50:1
- *NOTE: This proprietary product of SYSTEMS Equipment Corporation works only with weighbridge and totalizer components supplied by SYSTEMS.*



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