

# Travel and Alignment Sensing System

## For Rectangular Sludge Collectors

The Travel and Alignment Sensing System (TAS) permits electronic monitoring of rectangular chain and scraper collector systems.

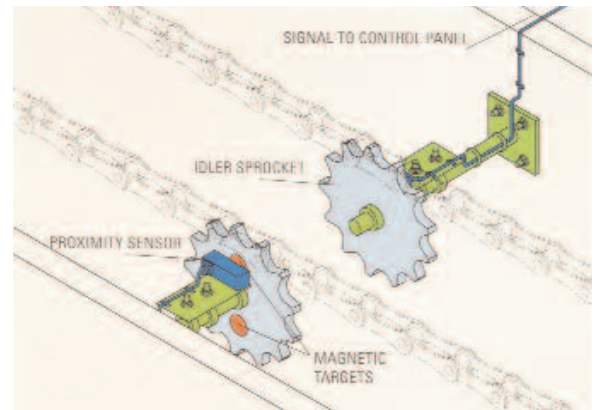
The TAS system is made up of two idler sprockets which follow the two collector chains. Metallic targets attached to the sprockets are sensed by magnetic proximity switches which report to a control panel. If the chain becomes misaligned, the control panel recognizes a difference in the phase of the sprockets and sounds an alarm. If the panel recognizes a loss of motion, the power is disconnected from the drive and an alarm is sounded. In either instance, this can present a simple chain breakage from becoming a very costly pile-up of the entire collector.

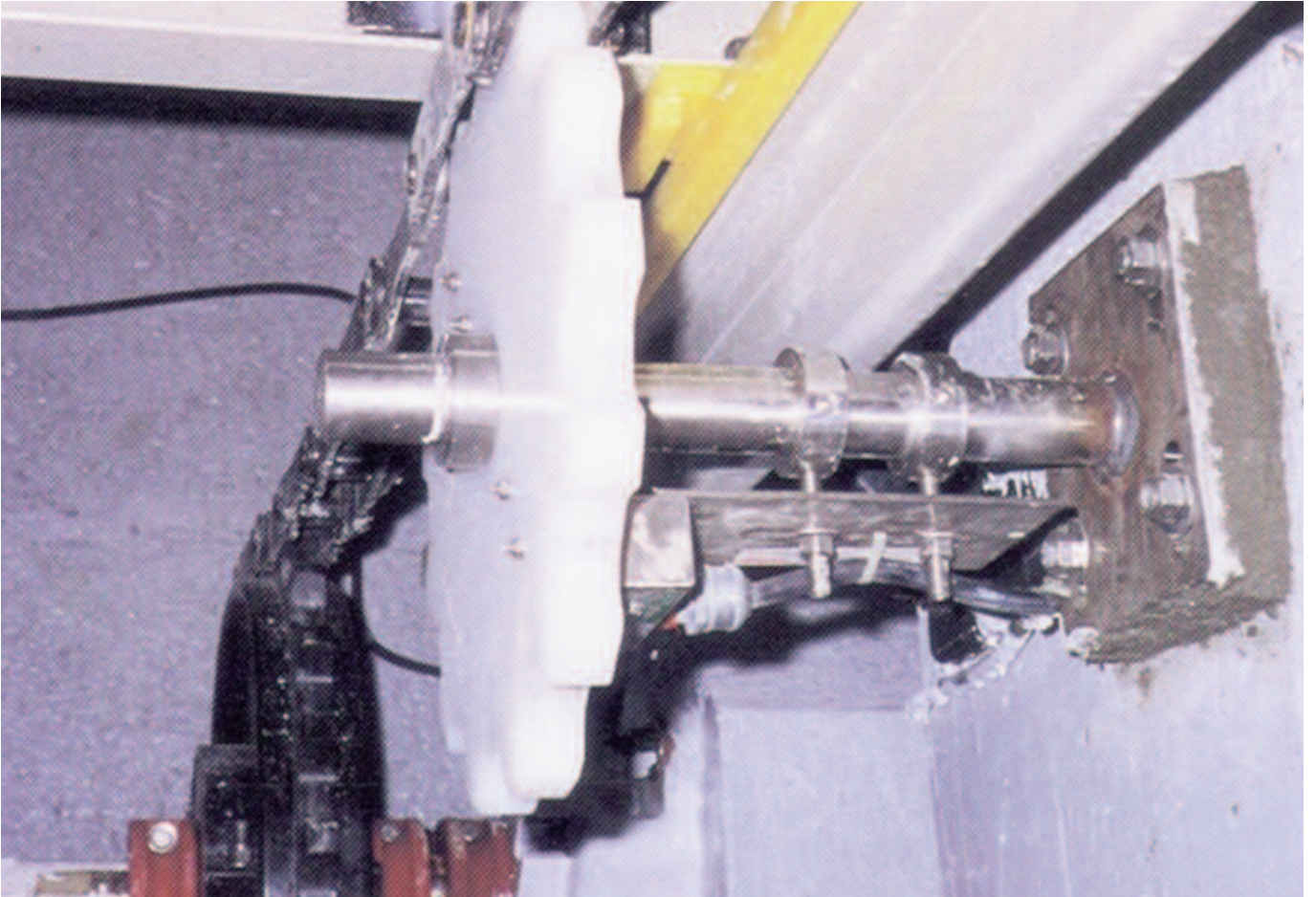
## Applications for the TAS system include:

- Plants with multiple units and/or fewer O & M personnel where manually checking operations is difficult or too costly.
- Plants where the sedimentation equipment is covered in order to control odors and it is difficult to verify proper operation of equipment.
- Plants using stacked (double and/or triple deck) collectors where it is impossible to visually observe the operation of the lower mechanism.

## Features of the Travel and Alignment Sensing System

- Unaffected by flight shoe wear or by uneven flight spacing.
- Completely sealed, submerged sensors.
- Retrofit to existing systems without modifications.
- Provides warning before chain breakage or disengagement.
- Alarm indicators of flight misalignment and loss of motion.
- Use with non-metallic, stainless steel or cast chain.
- Corrosion resistant construction.
- Essential in covered and multiple deck tanks.
- Software can be tailored to plant's needs.





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