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Ultrasonic sensors for road and tunnel construction

During the construction of major highway and railway projects, particularly in tunnel construction huge volumes of earth are needed to be moved quickly but efficiently.

When the mining is on such a large scale it is worth considering a conveyor belt system. Such installations may be several kilometers long and have a capacity of more than 1000 tons/hour.

These conveyor belts are of course fully automated but there still remains the risk of blockages or build ups at the hopper or the transfer points from one band to another.

For effective monitoring of the transfer points and hoppers robust ultrasonic sensors are used. They look down into the hopper and report if the level exceeds a certain value.

If the set value is exceeded the conveyor can then be slowed or stopped accordingly. The UPK series of Ultrasonic sensors have been specified for this application because of their proven reliability in just such conditions.

Where constant monitoring of levels is required in robust industrial applications or highly automated production lines Ultrasonic sensors are the best answer for durability and reliability.



Transfer point from one band to another



Ultrasonic sensor in the transfer hopper