

Empty detection in process hoppers with strong vibrations

The challenge

Our client is part of the largest group in the animal feed industry in Colombia. The challenge was to select the right sensor to use in two of the hoppers where the concentrated product is dosed. The main problem in this application was the strong vibration and therefore the sensors are often damaged since the electronics suffer from the continuous movement of the equipment.

Our solution

In this application the RFnivo 3100 with remote electronics was the solution. It is robust and protected against vibrations. The automatic self calibration at the startup made this limit switch easy in commissioning and service effort. The sensitivity is high enough for a DK value of about 1,5.

Products



RF 3100

RF3100 Standard Version

Full, Demand, Empty Detector

Shaft is selectable as

- Rod version (vertically, horizontally and oblique installation)
- Cable version (vertical installation)

Both versions are available as remote version (i.e. for use in applications/processes with heavy vibration)