

# LEVEL APPLICATION

## Application

## The Challenge

## The Solution



# Ultrasonic Point Level Switch

## Pump Seal Reservoir (Seal Pots)

Almost every chemical process uses seals to eliminate costly leaks. When the surfaces to be sealed move relative to one another, such as the shaft of a centrifugal pump, a dynamic seal design must be used to combat leakage problems. Common dynamic seals are the double and tandem designs that require a compatible sealing fluid known as the barrier fluid. External tank assemblies known as seal pots are commonly used as a source of clean, pressurized barrier fluid for double or tandem seal assemblies. These tanks, or seal pots, are pressurized and require instruments to monitor the fluid level. Fluid loss results in catastrophic failure of the seal, dangerous plant conditions and environmental hazards.

Plant operators rely on SOR ultrasonic point level switches to activate if the fluid level ever drops too low, indicating a fluid loss problem. Additionally some applications may require a high level switch to identify hazardous product leakage across the primary seal and into the seal chamber. Outputs from these switches connect to alarm annunciators and/or plant control systems, initiating procedures for immediate corrective action. Many systems even use an SOR pressure switch to activate an alarm or shut down the pump for added safety.

The SOR ultrasonic point level switches are the plug and play solution for your fluid monitoring needs.



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