

Maintenance Free Level Switch Optimizes Protection of Equipment

RESULTS

- Fast commissioning
- Increased equipment protection
- Reliable response
- Reduced maintenance

APPLICATION

Hydraulic oil reservoir alarm

CUSTOMER

Hydraulic system user

CHALLENGE

Hydraulic Systems demand high availability and a constant volume of oil. The hydraulic oil reservoir compensates for small leaks or the loss of oil. An indication of low level is paramount to protect the associated machinery and to indicate the need to refill the reservoir. Some of the vessels are limited in size and in surrounding space. Many operate in vibrating environments, therefore demanding a compact and reliable sensor.

SOLUTION

Using a Rosemount 2120 Vibration Fork Level Switch, a simple relay output provides the “no liquid present” alarm signal. Powered from 20 to 60V dc, the level switch with SPCO relay electronics is screwed into a ¾” BSPT threaded hole and protrudes 2 in (50mm) (typically) into the reservoir.

The level switch fits ideally into this limited space. Because there is no calibration required, the 2120 was ready to go immediately after installation. If the level drops to the low level line, an alarm will sound. This allows the reservoir to be refilled before the fluid supply runs dry, protecting valuable equipment. In addition, the short fork protrusion length allows the 2120 to be installed in small, tight areas of the tank.

The level switch has a self-monitoring capability with an LED status indicator. This gives at-a-glance assurance to operators that the switch is functioning properly. In an alarm condition, the alarm output triggers an LED, horn or machine inhibit circuit.



The Rosemount 2120 is versatile, easy to commission and reliable in high vibration applications.



The 2120 installed in an oil reservoir. If no liquid is present, a reliable alarm signals.

ROSEMOUNT

For more information:
www.rosemount.com


EMERSON
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RESOURCES

Rosemount 2120

<http://www.emersonprocess.com/rosemount/products/level/m2120.html>

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