

Application Notes...



Power pack oil alarm

Small hydraulic power packs provide the power for many hydraulic tools such as wrenches and cutters. However, these can sometimes leak or a hose can break without the operator realising. The loss of oil can not only stop the work in hand, but can also be dangerous if the tools are being used to put equipment together or support a structure.

Brief given

Sensor-Technik was asked to develop a reliable but low cost solution that would stop the pump and give an audible alarm when the oil reserve fell below a preset level. The design had to be suitable for use with a range of different supply voltages, since these pumps are sold in versions to operate off voltages from 110V AC to 615V AC.

The solution

Simple level switches were mounted in the oil tank and a small circuit was designed that would disconnect the power and activate the alarm when the oil fell below the preset level.

Implementation

To simplify wiring and installation, the level switches and electronic circuitry were developed as a single unit. Thus installation is as simple as mounting the unit and connecting the power supply.

Sensor-Technik's in-house development team made sure all switch mounting and product sealing issues were addressed, so that the finished product was something any hydraulic fitter could install with ease, making retrofit or repair a simple matter anywhere in the world.

Conclusion

With a few rugged components and the benefit of Sensor-Technik's knowhow and experience, a safety and alarm system was developed suitable for use on a wide range of hydraulic pumps that was simple to install, requiring no additional set-up or adjustment regardless of where in the world it was being used.

Sensor-Technik

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