

## New Product Applications

# Liquid Level Transducers

June 2019



### Customer

This UK division of a worldwide renowned and respected company designing and manufacturing specialist inkjet print heads and systems for OEM printing machinery manufacturers. Rochester Sensors UK had previously worked with the customer developing a continuous output sensor to detect the level of printing inks, and that success prompted Xaar to approach us again knowing our capability with this type of level sensor.

### Application

Sensing the level of printing ink in a reservoir and providing a continuous signal output. The customer has been at the forefront of designing and manufacturing these high speed printing heads and ink reservoirs for many years and continually strives to improve the product in line with industry requirements. The printing machines are used, for example, in high speed packaging applications where 100% reliability and durability are essential in what is often a 24/7 process. The print heads are fed from a local reservoir, in which the sensor is mounted and monitored remotely, which is in turn replenished by a bulk tank.

### Product

A review of the application, particularly the aggressive nature of the inks, led us to specify an entirely a 316 stainless steel construction employing totally inert Buna N floats and ruggedized the float switches further by mounting the reed switches onto a PCB.

Initial design approval was given a large amount of vibration, shock and temperature testing was conducted. This was then followed by extensive field testing before the design was signed off for production.

Rochester Sensors is very pleased to be supplying such a high profile and prestigious company with a custom designed product. This is one more in a long list of application based products which Rochester Sensors has designed and put into production.

