

## Fuel level senders

Construction

June 2019



### Customer

JCB Heavy Products Ltd, Staffordshire, UK, manufacturers of a large range of earth moving equipment used on house building, road construction and landscaping applications. Used by construction and hire companies, the products are designed to be durable, rugged and capable of withstanding considerable misuse and neglect.

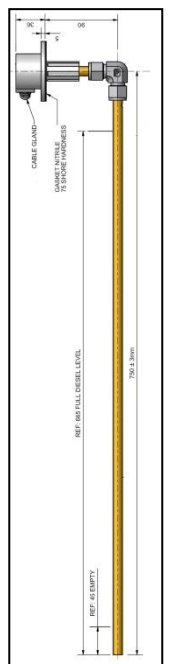
### Application

Fuel level sensing. The customer was experiencing a significant level of field failures of the fuel level sender and the subsequent high cost of warranty claims.

### Product

There were a number of design considerations to be taken into account which included restricted sensor fitting space and the long and narrow shape of the fuel tank. There was also a requirement that the sensor be mounted into the side of the tank. Fozmula proposed a derivative of its T/LL140 series fuel level sensors with the main feature being its right angle (90°) design of sensing stem which complied with all of the JCB physical constraints for this application.

Initial design approval was given and a large amount of vibration, shock and ingress protection testing, which was traceable to national standards, was conducted by third parties. This was then followed by extensive field testing across several continents before the design was signed off for production.



Fozmula 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 Fozmula has designed and put into production.