



Custom sealed encoder

Industry:

Petroleum Dispensing Industry

Application:

Gasoline pumps for automotive service stations and convenience stores

Statement of Problem:

Gasoline pump manufacturers are faced with the arduous task of finding a reliable, long life, industrial grade component to use in metering gasoline flow. The component must be able to withstand extreme temperatures and be resistant to external contaminants that may be encountered in normal service.

Solution:

The optical encoder is used inside the gasoline pump metering system. The encoder is mounted on the valve that measures the amount of gasoline dispensed from the in-ground storage tanks. The valve rotates the shaft and the encoder counts the number of shaft revolutions, determining the amount of gasoline dispensed. The encoder sends a signal to the CPU, which then displays the amount of gasoline dispensed on the digital front panel of the gas pump.

Relying on our core competency, the ability to provide custom products for specific applications, we have designed a product able to withstand the rigorous environmental conditions associated with a gasoline pump. The optical encoder is placed inside an external housing and potted with epoxy to seal against splashing water, gasoline vapors and other contaminants. Currently we have three standard models available to meet your gas flow metering needs: ENA1D-494-L00100, ENZ1D-493-L00100 & ENZ1D-495-L00100.

Please contact your local Bourns Sales Representative for more information.

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