

Application Notes...



Military observation vehicles

Modern warfare is all about accuracy and speed, which drives a demand for integrated targeting systems with accurate positioning.

Brief given

A requirement on a military observation vehicle was to electronically link the periscope to the gun turret, so that the observer could select a target just by finding it through the periscope. Sensor-Technik was asked to develop position feedback units for both the periscope and the gun turret. The feedback information also had to include 'start' and 'end' positions, as well as providing a mid position switch for use during transport or general driving. The system needed to interface with the on-board controller, providing the link between these essential systems.

The solution

Sensor-Technik combined a high resolution absolute encoder with a high precision mechanical system to output the limit switch points. The unit was developed to be highly reliable to meet the high standards of the military and NATO for supply world wide.

Implementation

Through simple modification of a standard product, Sensor-Technik developed an

appropriate and unique piece of hardware for the customer, both in terms of its mechanical style and associated software. The units are delivered complete and pre-set, ready for immediate installation on the vehicle.

The unit is tested to IP69 and meets NATO requirements.

Conclusion

By combing modern technology with products proven in other industries, a unique solution was developed that provided a computer interface on the one hand, but offered the element of mechanical safety required on the other.

Typical uses

The product meets the specifications of all types of tanks and military vehicles. It is equally applicable on all sorts of mobile plant for arduous duties, such as earth moving equipment and fire fighting appliances.

Sensor-Technik

Complete solutions

Sensor-Technik is fully able to meet your systems needs, by offering a unique product design and manufacture facility to build up complete sub-assemblies where necessary, from development of specifications to delivery of the finished product, guaranteed to offer performance and reliability in even the toughest of environments.

With our in-house design capabilities, the resources of our own machining facilities, decades of applications experience and approvals from the likes of the Ministry of Defence and NATO, we can tailor a standard product to meet your exact requirements.

Sensors and displays

From pressure sensors to load cells to encoders – and many other electro-mechanical products besides – Sensor-Technik has one of the widest ranges of products available. Further, Sensor-Technik's sensor products are all available as standard with read-out units that provide clear indication of the parameter being measured.

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