

Novotechnik magnetic angle sensor range now with J1939 interface: Contactless, long life and high precision angle sensing for commercial and mobile vehicle automation

Available in the UK from Variohm EuroSensor, Novotechnik's RFC-4800 series touchless technology angle sensors are well proven for industrial and mobile equipment measurement tasks. A wide choice of analogue and digital output options as well as fieldbus interfaced versions ensure maximum flexibility for the two-part contactless 'sensor and magnet' component which offers extreme environmental durability and unparalleled working life and reliability. Now, Novotechnik has launched a variant of its RFC-4800 series with a CAN SAE J1939 interface that offers manufacturers and equipment designers of all types of commercial vehicles the vehicle network technology of choice for this well accepted industry standard.



Image: RFC-4800 application example – steering feedback measurement on agricultural machinery

The impressive specification for the new CAN SAE J1939 interface protocol version offers high immunity to interference, convenient cabling and diagnostic options and follows the comprehensive RFC-4800 series with a full 360 degrees rotation angle, angular positioning resolution of up to 14 bits, independent linearity of +/- 0.5%, and repeatability to 0.36 degrees. With the sensor to magnet air gap tolerance of up to 5 mm and relatively un-critical alignment requirements, installation is made easy - and with neither shaft nor bearing necessary, the installed costs are minimised. Measurements can equally be made through an air gap or through any non-ferromagnetic material.

Durability is guaranteed with vibration rated up to 20 g (IEC 600658-2-6) and shock up to 50 g (IEC 68068-2-27) whilst a choice of IP67 or IP6K9K protection and permissible ambient temperature between -40 °C and +105 °C ensures use in the most arduous vehicle conditions. As the two-part sensor and magnet design is completely contactless, the MTTF life is specified in units of tens and hundreds of years rather than hours. The compact sensor is installed within a 50 mm diameter and a height of less than 14 mm with various magnet/position marker options or separate magnets for

direct fitting to the customer's shaft or measured component.

The CAN SAE J1939 interface protocol version will provide precision measurement solutions for steering angle, throttle, and other angular position feedback tasks on commercial vehicles including trucks, vans, coaches, buses, and trailers as well as off-road mobile construction equipment, agricultural and forestry machinery, and more.

[Variohm EuroSensor](#) supports a wide range of sensor technologies from the German sensor specialist Novotechnik, and is a distribution partner for several other leading sensor suppliers as well as a sensor component designer and manufacturer in its own right - providing complete sales and application support across a comprehensive range of position, force, pressure, load, and temperature sensor technologies for demanding measurement application solutions in industry, construction, agriculture, motorsports, research and more.

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About Variohm EuroSensor

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