



Wide choice of custom options for new Hall Effect angle sensor range: Variohm EuroSensor launch new miniature rotary shaft programmable angle sensor

Variohm EuroSensor's new Euro-CMRS series miniature angle sensors offer programmable angles from 30° to 360° in 1° increments in a non-contacting and long-life Hall Effect design that includes a durable IP68-sealed aluminium housing with 18 mm PCD mounting and a micro 4 mm diameter 316 stainless steel D-type shaft. Output options - from an industry standard 5 VDC input - cover CW or CCW direction with single or dual redundant angle measurement at ratiometric or PWM signal levels. With mechanical and electrical manufacturing flexibility designed-in, the Euro-CMRS can easily accommodate customised shaft and mounting modifications as well as customer specified and other industry standard output characteristics.



The non-contacting Hall Effect sensor technology, adapted and improved for the Euro-CMRS, has been well proven in earlier Variohm sensor models as a long-life and extremely robust measurement technology with many years of application success in performance test and development for motorsports as well as critical angular position feedback in automotive system technologies, industrial automation, agricultural and construction machinery.

The miniature sensor is less than 20 mm in length with a main body diameter of just 10.5 mm. Its 'rounded diamond' flange, measuring just 25 mm x 10.5 mm x 3.5 mm thick, includes two 3.2 mm fixing holes on an 18 mm PCD to ensure straightforward yet unobtrusive mechanical interfacing to suit space restricted installations. A 4 mm diameter D-type shaft is supported in low friction phosphor bronze sleeved bearings for a minimal drive torque requirement of just 0.8 Ncm.

The impressive Euro-CMRS is a part of the new miniature CMRx family of Hall Effect sensor types from Variohm that also includes a micro-threaded interfaced version as well as a puck and separate magnet design. All boast impressive specifications that include a working temperature range from -40° C to +125° C with short term operation to 150° C. With encapsulated sensor electronics the vibration specification meets IEC 60068-2-6. In terms of accuracy, the independent linearity through the three models is +/- 0.5% of each signal range. Standard electrical connection is 500 mm long Raychem 55 cable in three- and six-wire versions to suit single and dual channel models. Whilst the dimensions for the new CMRx miniature sensor range are the smallest currently available, their ability for straightforward design customisation and scalability is a key factor that helps ensure the customer's installation requirements are both matched and simplified.

[Variohm EuroSensor](#) produces the Euro-CMRx range at its ISO 9001:2015 quality-certified UK manufacturing facility along with other sensor components and measurement sub-systems for

position, force, pressure, load, and temperature measurement. Also, as a distributor for other leading sensor component suppliers and a supply chain partner for major manufacturers, the specialist provides complete sales and application support across a comprehensive range of sensor technologies for demanding measurement applications in industry, construction, agriculture, motorsports, research and more.

A new [datasheet](#) is available covering the Euro-CMRS and the new family of customisable Hall Effect non-contacting sensor models. Variohm EuroSensor's application engineers are on hand to discuss customer requirements and provide technical assistance from development through to after sales support.

END

About Variohm EuroSensor

Variohm EuroSensor is a manufacturer, distributor and supply chain partner providing complete sales and application support across a comprehensive range of position, force, pressure, load, and temperature sensor technologies - for demanding measurement applications across industry, construction, agriculture, motorsports, research and more.

Variohm EuroSensor

Williams' Barn
Tiffield Road
Towcester
Northants NN12 6HP
United Kingdom
Graham Pattison
Phone: +44 (0) 1327 351004
graham@variohm.com
<http://www.variohm.com>

DEUTSCHE KONTAKTDATEN

Variohm Eurosensor.
Hans-Bunte-Straße 8.
D-69123 Heidelberg
Germany
Carsten WALTHER
Phone: +49 6221 772 233
Fax: -
Carsten@variohm.com
www.variohm.de