

Smallest model now launched for new miniature programmable Hall Effect angle sensor range: Variohm EuroSensor's Euro-CMRT micro threaded angle sensor offers extensive option and customisation selection

With a diminutive 10 mm diameter housing, M8 threaded mounting and a 3.175 mm diameter flatted shaft, Variohm EuroSensor's new Euro-CMRT series Hall Effect angle sensors extend its recently launched CMRx range of miniature programmable non-contacting sensors. The durable and robust CMRT series has an IP68 rating and is particularly aimed at long life, high duty-cycle precision angle measurement tasks where space is at a real premium or where its design flexibility allows straightforward mechanical and electrical adaptation to exactly match the customer's requirements. A choice of single or dual redundant output, with CW or CCW direction, includes ratiometric or PWM signal levels from an industry standard 5 VDC input.



Variohm's Hall Effect sensor technology has been adapted and improved over many angle sensor design iterations and is well-proven for use in arduous position feedback measurement applications that include motorsports, industrial automation, agricultural vehicles and construction machinery. And now the new Euro-CMRT series is available in its smallest package size to date. The M8 mounting and small envelope will facilitate mounting in the smallest spaces as well as allow custom flange adaptations for form-fit replacements for competitor products and application upgrades for existing Variohm applications.

The high grade anodised aluminium housing supports the 316 stainless steel shaft in a durable phosphor bronze sleeve bearing and with no sensor contact, long life – in excess of 50 million movements - is specified. A vibration rating that meets IEC 600068-2-6 and temperature range from -40° C to +125° C, with short term operation to 150° C, further ensures performance for the most demanding environments.

The Euro-CMRT complements the new 18 mm PCD flange mounting Euro-CMRS and the puck-and-magnet design of the Euro-CMRK. Thanks to their innovative and modular design, with encapsulated sensor electronics, all Euro-CMRx series products boast the same impressive environmental and electrical specifications with independent linearity to 0.5% of each signal range, and programmable angles from 30° to 360° in 1° increments. Electrical connection for the 3-wire single-channel and 6-wire dual-channel versions is 500 mm long Raychem 55 cable with connectors and other options on request. Across the new CMRx micro sensor range, whilst the

dimensions are the smallest currently available, the modular design offers straightforward mechanical and electrical customisation. This scalability helps to ensure the customer's installation requirements are both matched and simplified.

The Euro-CMRx range is produced at Variohm's ISO 9001:2015 quality-certified UK manufacturing facility along with many other precision sensor components and measurement sub-systems for position, force, pressure, load, and temperature measurement. Variohm is also a distributor for several other leading sensor component suppliers as well as a supply chain partner for major manufacturers. The specialist provides complete sales and application support across its 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-CMRT along with complete specification details for the new Euro-CMRx range of customisable Hall Effect non-contacting sensor models on the [Variohm EuroSensor](#) website. Variohm EuroSensor's application engineers are on hand to discuss customer requirements and provide technical assistance from development through to after sales support.

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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.

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