

Euro-CMRT Programmable Sensor Custom Micro Rotary Threaded



- Micro Threaded Rotary Sensor
- Hall Effect non-contact technology
- Long life - extremely robust
- Programmable angles from 30° up to 360°
- IP68 protection
- Selectable and customisable mounting options
- Redundant output



The Euro-CMRT angle sensor is specifically aimed at arduous high-duty cycle position feedback applications where miniaturisation is a key factor. With programmable angle selection, this compact and contactless IP68 rated Hall Effect sensor features a high grade aluminium housing and a stainless steel shaft which together with the M8 mounting thread are all customisable to suit the customer's application.

Specifications

Mechanical

Typical Life Cycle	>50 million movements (restriction by mechanics)
Torque	< 0.8 Ncm
Measuring range	360° redundant, signal 1 cw, signal 2 ccw
Housing	High grade anodised aluminium
Shaft	Stainless steel 316
Bearing	Phosphor bronze sleeve
Recommended Mounting Nut Torque	5- 6.2 Nm (may differ dependant on application)

Environmental

Operating temperature	-40°C to +125°C (Short term 150°C)
Vibration	5...2000 Hz; Amax = 0.75 mm; amax = 20g to IEC 60068-2-6
IP rating	IP68

Electrical

Supply Voltage	5V +/- 0.5V
Output signal	Ratiometric 5%...95% of supply (+/-25mv of specified electrical output range for both start & end voltage)
Independent linearity	+/- 0.5% of each signal range
Isolation resistance	200 MΩ (500 VDC, 1 bar, 2s)
Electrical connection	See ordering code/wiring diagram
Cable type	Raychem Spec 55, 24 AWG

Ordering information

(Please use the characters in the chart below to construct your product code)

Euro-CMRT - D - 1 1 2 - 10M8 - 360 - 11 78 - 50

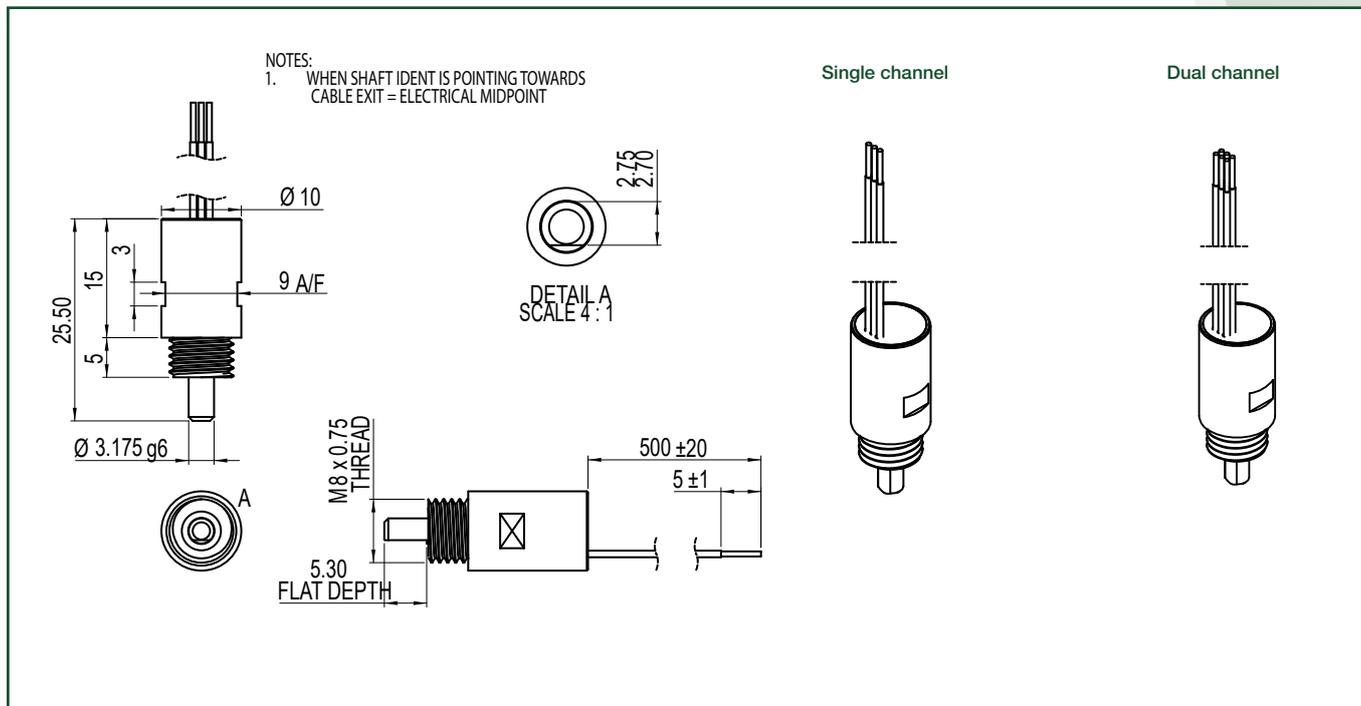
Product Series Code	Shaft	Input Type	Output Type	Number of Channels	Mounting Thread	Electrical Angle	Output Signal	Channel Direction	Cable Length
(Euro -Custom Micro Rotary Threaded)	<ul style="list-style-type: none"> • D – Standard Male D Shaft (3.175mm Ø) • X – Customised on request 	<ul style="list-style-type: none"> • 1 – 5V Supply 	<ul style="list-style-type: none"> • 1 – Analog Ratiometric • 2 – PWM 	<ul style="list-style-type: none"> • 1 – Single Channel • 2 – Dual Channel 	<ul style="list-style-type: none"> • M8 – M8 X 0.75 • XX – Custom on request 	<ul style="list-style-type: none"> • 360 – Standard Electrical Angle 360° • Optional Angle from 30° to 360° in 1° steps (e.g. 181=181 °) 	<ul style="list-style-type: none"> • 1 – 5% to 95% of Input Voltage • 2 – 10% to 90% of Input Voltage • 3 – Custom on request e.g. 11 = 5 to 95% both channels 	<ul style="list-style-type: none"> • 7 – Clockwise • 8 – Counter Clockwise e.g. 77 = Clockwise both channels 	<ul style="list-style-type: none"> • 50 – Standard Cable Length 500mm • XX – Custom on request < 1 metre • XXX – Custom on request > 1 metre • (Standard Cable Raychem Spec 55, 24 AWG; Others available on request)

Some Inputs to Outputs are not configurable please contact sales@variohm.com for more info

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Euro-CMRT - dimensions in mm



Wiring

