EUROSENSOR

EURO-CMRT PROGRAMMABLE SENSOR
CUSTOM MICRO ROTARY THREADED

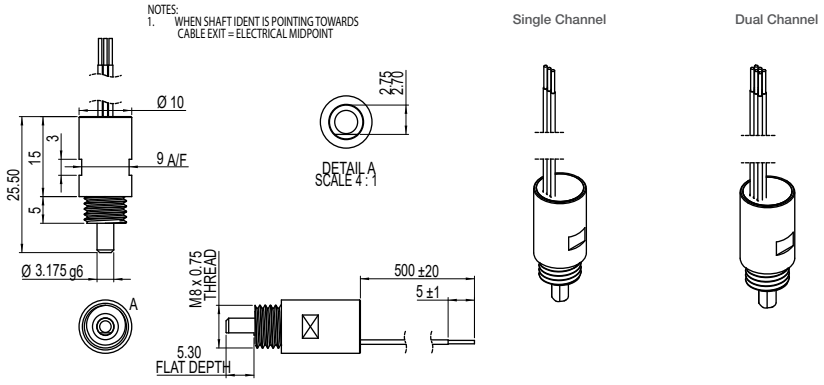


- **Hall Effect non-contact technology**
- **Long life - extremely robust**
- **Programmable angles from 30° up to 360°**
- **IP68 protection**
- **Selectable and customisable mounting options**
- **Redundant output**

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	20...2000 Hz; Amax = 0.75 mm; amax = 31.4 g to IEC 60068-2-6
IP rating	IP68
Cable type	Raychem Spec 55, 24 AWG
Electrical	
Supply Voltage	5V +/- 0.5V
Output signal	Ratiometric 5%...95% of supply (+/-25mv of specified electrical output range for both start & end voltage) PWM frequency 100Hz... 1000Hz, 1000Hz default, duty cycle between 5%-95%
Independant 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

Dimensions in mm



Wiring



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

Ordering information

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

Shaft

D	Standard Male D Shaft (3.175 mm Ø)
A	Customised on request

Input type

1...5 V supply

Output type

1	Analog Ratiometric
2	PWM

Nr. of channels

1	Single channel
2	Dual channel

Mounting thread

M8	M8 X 0.75
XX	Custom on request

Electrical angle

360	Standard electrical angle 360°

Optional angle from 30° to 360° in 1° steps
(e.g. 181 = 181°)

Output signal

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

Channel direction

7	Clockwise
8	Counter clockwise e.g. 77 = Clockwise both channels

Cable length

50	Standard cable length 500 mm
XX	Custom on request < 1 metre
XXX	Custom on request > 1 metre

(Standard cable Raychem Spec 55, 24 AWG;
Others available on request)

The following sensor models are available as standard products:

94483 Euro-CMRT-D-112-10M8-360-1178-50

95292 Euro-CMRT-D-112-10M8-120-1178-50

94575 Euro-CMRT-D-112-10M8-060-1178-50

94558 Euro-CMRT-D-111-10M8-360-17-50

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