

- **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-CMRS 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 with stainless steel shaft that are both mechanically customisable to suit the customer's application.

Specifications

Mechanical

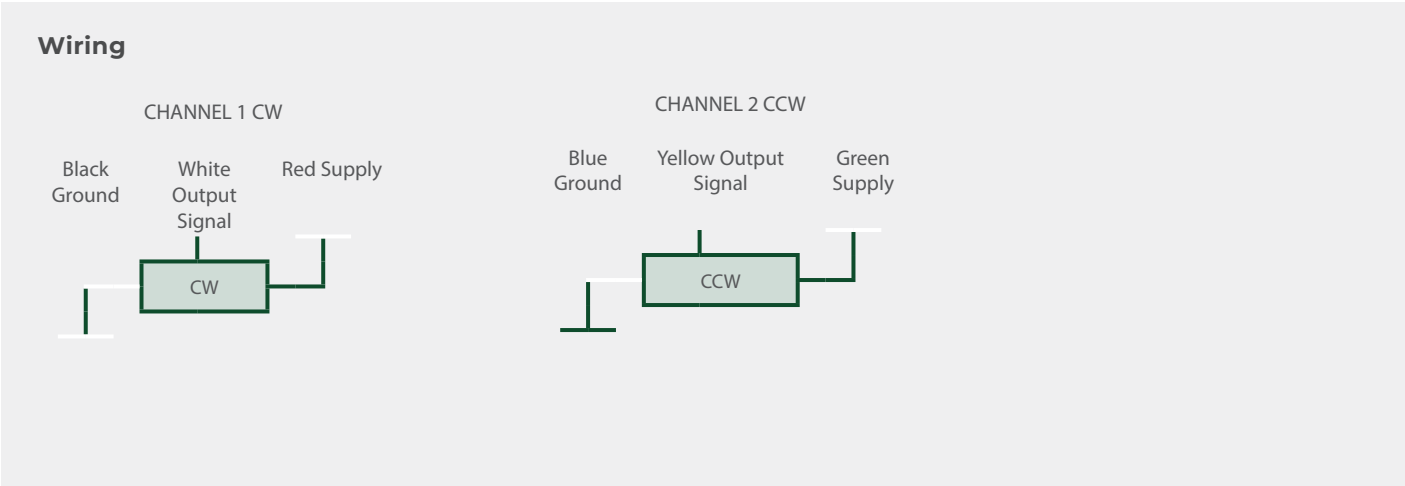
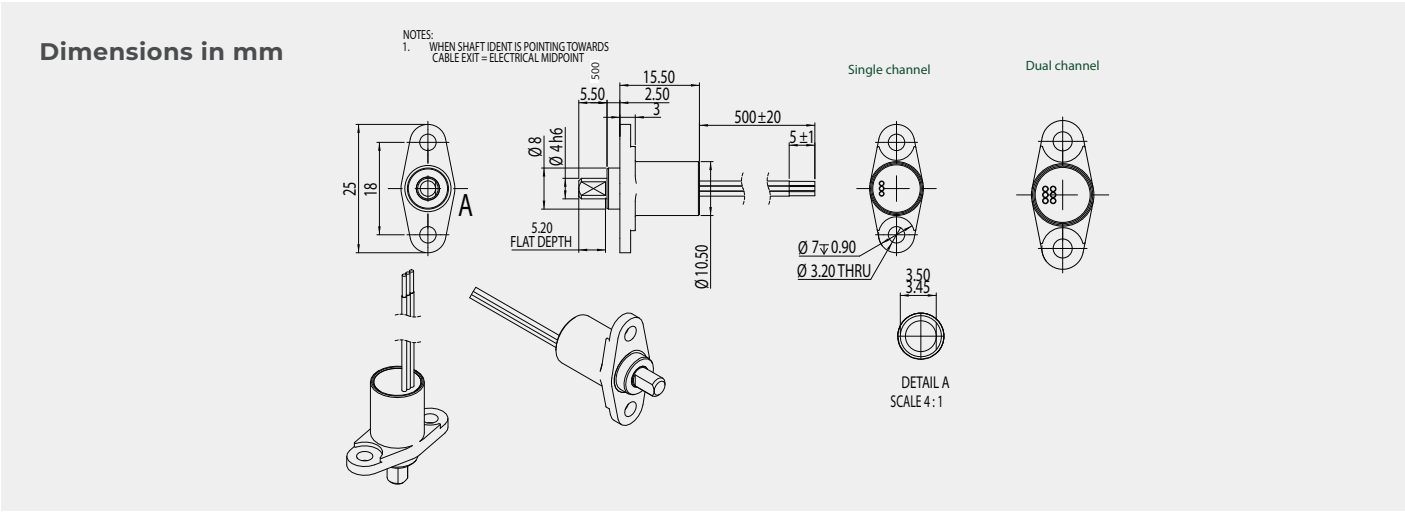
Typical Life Cycle	>50 million movements (restriction by mechanics)
Torque	< 0.8 Ncm
Measuring range	360° redundant, signal 1 cw, signal 2 ccw
Housing	High grade anodised aluminium
Shaft	Stainless steel 316
Bearing	Phosphor bronze sleeve
Recommended Mounting Bolt Torque	1.8- 2.2 Nm (may differ dependant 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

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



Ordering information

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

Sample Code Euro-CMRS – D – 11 2 – 1018 – 360 – 11 78 – 50

Shaft	Input Type	Output Type	Nr. of Channels	Mounting Flange PCD	Electrical Angle	Output Signal	Channel Direction	Cable Length
D – Standard Male D Shaft (3.175mm Ø) X - Customised on request	1 – 5V Supply	1 – Analog Ratiometric 2 – PWM	1 – Single Channel 2 – Dual Channel	18 - 18 mm PCD XX - Custom on request	360 – Standard Electrical Angle 360° Optional Angle from 30° to 360° in 1° steps (e.g. 181=181°)	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	7 – Clockwise 8 – Counter Clockwise e.g. 77 = Clockwise both channels	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)

The following sensor models are typically available from stock:
94474 Euro-CMRS-D-112-1018-360-1178-50
95291 Euro-CMRS-D-112-1018-120-1178-50
95290 Euro-CMRS-D-112-1018-060-1178-50