



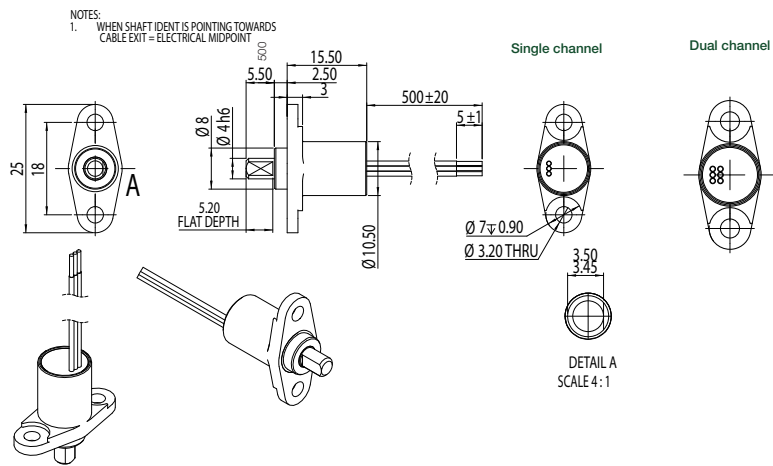
- ▶ **Hall Effect non-contact technology**
- ▶ **Long life - extremely robust**
- ▶ **Programmable angles from 30° up to 360°**
- ▶ **IP68 protection**
- ▶ **Selectable and customisable mounting options**
- ▶ **Redundant output**

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.

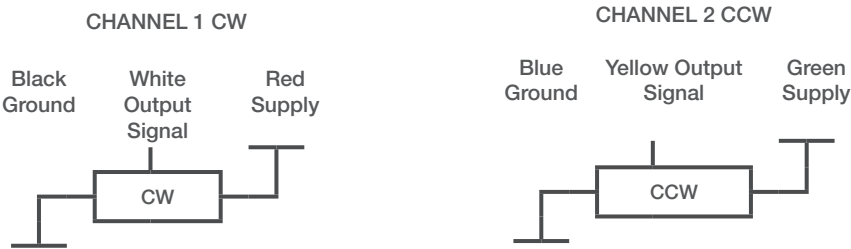
Specifications	
Mechanical	
Typical Life Cycle	>50 million movements (restriction by mechanics)
Torque	< 0.8 Ncm
Measuring range	360° redundant, signal 1 cw, signal 2 ccw
Housing	High grade anodised aluminium
Shaft	Stainless steel 316
Bearing	Phosphor bronze sleeve
Recommended Mounting Bolt Torque	1.8-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



Dimensions in mm



Wiring



EURO-CMRS PROGRAMMABLE SENSOR CUSTOM MICRO ROTARY SHAFTED



Ordering information

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

Sample Code Euro-CMRS – D – 1 1 2 – 1018 – 360 – 11 78 – 50

Shaft

D Standard Male D Shaft (3.175mm Ø)

X Customised on request

Input Type

1 SV

Output Type

1 Analog ratiometric

2 PWM

Nr. of Channels

1 Single Channel

2 Dual Channel

Mounting Flange PCD

18 18mm PCD

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

2 10% to 90% of Input Voltage

3 Custom on request z.B. 11 = 5 bis 95% both Channels

Channel Direction

7 Clockwise

8 Counter Clockwise

z.B. 77 = Clockwise both channels

Cable length

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 available as standard products:

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

If you require a customized solution for your program contact our sales team.