EUROSENSOR

EURO-CMRS PROGRAMMABLE SENSOR CUSTOM MICRO ROTARY SHAFTED

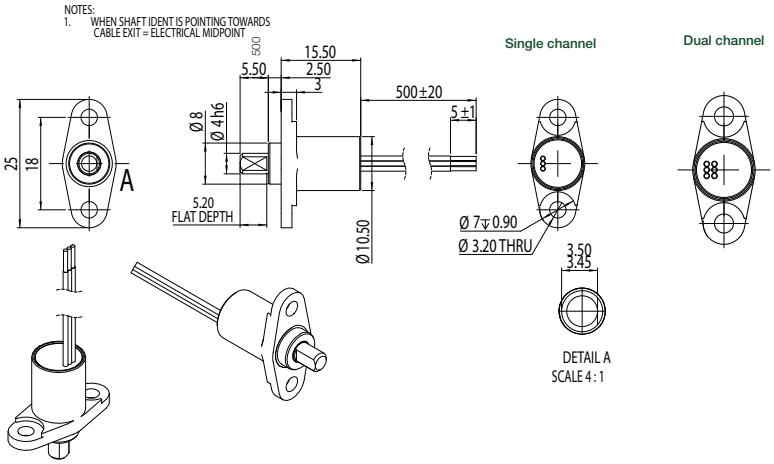


- **Hall Effect non-contact technology**
- **Long life - extremely robust**
- **Programmable angles from 30° up to 360°**
- **IP68 protection**
- **Selectable and customisable mounting options**
- **Redundant output**

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



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.