

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.

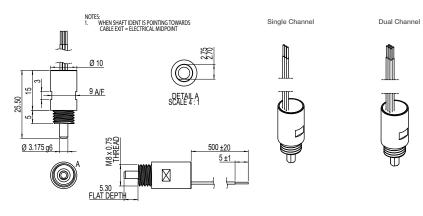
Specifications

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	202000 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						

EURO-CMRT PROGRAMMABLE SENSOR CUSTOM MICRO ROTARY THREADED



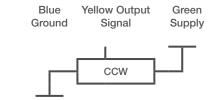
Dimensions in mm



Wiring

CHANNEL 1 CW Black White Red Ground Output Supply Signal

CHANNEL 2 CCW



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

EURO-CMRT PROGRAMMABLE SENSOR CUSTOM MICRO ROTARY THREADED



Ordering information

Shart 0 Standard Male (J Shaft (ST/S rum (2)) A Customised on request Input type L.SV supply Ostput type 1 Analog (Jastomatric) 2 PVM No - Ghannel 1 Single channel 2 DVM Nou-ting thread Main Max 0x75 Xix Custom on request Electrical angle Goto Standard electrical angle 500* Ordbroad rapif from S0*to 300*in 1* steps Insigned channels 1 Sink o60% of Input Valtage 2 Delay 1 Sink o60% of Input Valtage 3 Custom on request q. 11 = 5 in 90% Sink o60% of Input Valtage 3 Custom on request q. 11 = 5 in 90% Sink of ofking I input Valtage 3 Custom on request q. 11 metre 40 Sinadard cable length 500* nm 5 Sundard cable bla	Sam	ple Code	Euro-CMRT -	D	-	112	-	10 <u>M8</u>	-	<u>360</u> -	<u>11</u> 78	<u> </u>	<u>50</u>
D standard Male D Shah (2x75 mm 6) A Customiced on request Input type 1. Sungle channel 1 Single channel 2 PWM No. of channels 1 Single channel 2 Dual channel Mounting thread M8 M8 X075 XX Custom on request 1 Single channel Mounting thread M8 M8 X075 XX Custom on request Mounting thread M8 M8 X075 XX Custom on request Content clockal angle 360* Optional angle from 30* to 300* In 1* steps (eg 181 - 181*) Output signal 1 Sin to 95% of hopt Valtage 2 Otak to 95% of hopt Valtage 3 Custom concequest gill = 5 to 95% both channels Custom concequest gill = 5 to 95% Custom concequest gill = 5 to 95% State splate 2 Custom concequest gill = 5 to 95% Custom concequest gill = 5 to 95% State splate 3 Custom concequest gill = 5 to 95% Custom concequest gill = 5 to 95% State splate 3 Custom concequest gill = 5 to 95% State splate 4 Custom concequest gill = 5 to 95%													
A Customised on request Input type 1_SV supply Output type 1_Analog Ratiometric 2_PWM Nr. of channels 1_Single channel Mounting thread M8_M8 X 075 XX Custom on request Detroit of the form 30 to 360° Optional regine m 30 to 360° in 1° seps (eg 38) = 181°! Output signal 1_Site 95% of Input Voltage 2_Dive to some request eg. II = 5 to 95% Channels 1_Custom request eg. II = 5 to 95% Channel direction 7_Custowise 8_Cunter clackwise e_T 7 = Clockwise bit channels Custom on request = 11 metre XX Custom on request = 11 metre													
Input type 1.5 V aupply Output type 1 Analog Ratiometric 2 PWM Nr. of channel 2 Dual channel 2 Service Service <th></th> <th></th> <th>175 mm Ø)</th> <th></th>			175 mm Ø)										
L.S V supply Output type 1 Analog Ratiometric 2 PVVM Nr. of channels 1 Single channel 2 Dual channel 2 Dual channel 3 Dual channel M8 M8 X075 XX Custom on request Electrical angle 360 Standard electrical angle 560° Optional angle from 30° to 360° in 1° steps (eg. 181 = 181°) Output signal 1 Six to 98% of Input Voltage 2 10% to 98% of Input Voltage 3 Custom on request eg. 11 = 5 to 95% both channels Channel direction 7 Cockwise eg. 77 = Clockwise eg. 77 = Clockwise eg. 77 = Clockwise 2 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre	A	Customised on request											
L.S V supply Output type 1 Analog Ratiometric 2 PVVM Nr. of channels 1 Single channel 2 Dual channel 2 Dual channel 3 Dual channel M8 M8 X075 XX Custom on request Electrical angle 360 Standard electrical angle 560° Optional angle from 30° to 360° in 1° steps (eg. 181 = 181°) Output signal 1 Six to 98% of Input Voltage 2 10% to 98% of Input Voltage 3 Custom on request eg. 11 = 5 to 95% both channels Channel direction 7 Cockwise eg. 77 = Clockwise eg. 77 = Clockwise eg. 77 = Clockwise 2 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre	1												
Output type 1 Analog Ratiometric 2 PWM Nr. of channels 1 Single channel 2 Dual channel Mounting thread M8 M8 X075 XX Custom on request Betchical angle 360 Standard olectrical angle 360° Opticnal regiter from 30° to 360° in 1° steps (eg. 18) = 181°] Channel timeter 1 5% to 95% of Input Voltage 2 10% to 90% of Input Voltage 2 11 5% to 95% of Input Voltage 2 12 13 Custom on request eg. 11 = 5 to 95% Channel clockwise eg. 77 = Clockwise both channels Castom con request + 1 metre XX Custom on request + 1 metre													
1 Analog Ratiometric 2 PWM No. of channels 1 Single channel 2 Dual channel MB M8 X 0.75 XX Custom on request Electrical angle 360 Standard electrial angle 360° Optional angle from 30° to 360° in 1° steps (eg 18) = 181° Output signal 1 S% to 95% of input Voltage 2 OW, to 50% of input Voltage 30 Coutom on request eg. 11 = 5 to 95% both channels 7 Clockwise 8 Coutrer clockwise eg. 77 = Clockwise 8 Coutrer clockwise eg. 77 = Clockwise 8 Coutrer clockwise eg. 77 = Clockwise 9 Standard cable length 500 mm XX Custom on request <1 metre XX Custom on request <1 metre	1	зарру											
1 Analog Ratiometric 2 PWM No. of channels 1 Single channel 2 Dual channel MB M8 X 0.75 XX Custom on request Electrical angle 360 Standard electrial angle 360° Optional angle from 30° to 360° in 1° steps (eg 18) = 181° Output signal 1 S% to 95% of input Voltage 2 OW, to 50% of input Voltage 30 Coutom on request eg. 11 = 5 to 95% both channels 7 Clockwise 8 Coutrer clockwise eg. 77 = Clockwise 8 Coutrer clockwise eg. 77 = Clockwise 8 Coutrer clockwise eg. 77 = Clockwise 9 Standard cable length 500 mm XX Custom on request <1 metre XX Custom on request <1 metre													
2 PWM Nr. of channels 1 Single channel 2 Dual channel 2 Dual channel Me M8 X 075 XX Custom on request Electrical angle 360 Standard electrical angle 360" Optional angle from 30° to 360° in 1° steps (eg.181 = 181") Otytut signal 1 Sik to 95% of Input Voltage 2 Tok to 90% of Input Voltage 3 Querton on request e.g. 11 = 5 to 95% Channel direction 7 Clockwise e.g. 77 = Clockwise e.g. 77 = Clockwise e.g. 77 = Clockwise Si Xandard cable length 500 mm XX Custom on request <1 metre XX Custom on request <1 metre	Out	put type											
Nr. of channels 1 Single channel 2 Dual channel M8 M8X.075 XX Custom on request Electrical angle 260 Standard electrical angle 360° Optional angle from 30° to 360° in 1° steps (eg. 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% but channels Channel direction 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise both channels 20 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre	1	Analog Ratiometric											
1 Single channel 2 Dual channel Mounting thread Ma M8 X0.75 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% but channels Channel direction 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise but channels 50 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre	2	PWM											
1 Single channel 2 Dual channel Mounting thread Ma M8 X0.75 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% but channels Channel direction 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise but channels 50 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre													
1 Single channel 2 Dual channel Mounting thread Ma M8 X0.75 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% but channels Channel direction 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise but channels 50 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre	Nr. c	of channels											
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 XX Custom on request < 1 metre													
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 50 Standard cable length 500 mm XX Custom on request 1 metre XX Custom on request 2 metre	2	-											
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 50 Standard cable length 500 mm XX Custom on request 1 metre XX Custom on request 2 metre													
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 eg. 11 = 5 to 95% both channels Clockwise 8 Counter clockwise e.g. 77 = Clockwise both channels 50 Standard cable length 500 mm XX Custom on request 1 metre XXX Custom on request 1 metre	Mou	nting thread											
Electrical angle 360 Standard electrical angle 360° Optional angle from 30° to 360° in 1° steps (eg. 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 Custom on request e.g. 11 = 5 to 95% 6 Counter clockwise e.g. 77 = Clockwise both channels Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request < 1 metre	M8	M8 X 0.75											
360 Standard electrical angle 360° Optional angle from 30° to 360° in 1° steps (e.g. 18] = 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 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise both channels 50 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request > 1 metre	XX	Custom on request											
360 Standard electrical angle 360° Optional angle from 30° to 360° in 1° steps (e.g. 18] = 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 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise both channels 50 Standard cable length 500 mm XX Custom on request < 1 metre XX Custom on request > 1 metre	Elec	trical angle											
Optional angle from 30° to 360° in 1° steps (e.g. 181 = 181°) Output signal 1 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 Chamel direction 7 Clockwise 8 Counter clockwise both channels Cable length 50 Standard cable length 500 mm XX Custom on request < 1 metre			360°										
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 Standard cable length 500 mm XX Custom on request < 1 metre XXX Custom on request > 1 metre	Optic												
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 Charrent direction 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise both channels Ength 50 Standard cable length 500 mm XX Custom on request < 1 metre XXX Custom on request > 1 metre	(e.g. 1	81 = 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 Charrent direction 7 Clockwise 8 Counter clockwise e.g. 77 = Clockwise both channels Ength 50 Standard cable length 500 mm XX Custom on request < 1 metre XXX Custom on request > 1 metre	Out	outsignal											
2 10% to 90% of Input Voltage 3 Custom on request e.g. 11 = 5 to 95% both channels Charnel 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													
3 Custom on request e.g. 11 = 5 to 95% both channels Channel Image: Context of the channels 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													
both channels Channels Channels Clockwise 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													
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	3		= 5 to 95%										
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													
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	Cha	nnel direction											
e.g. 77 = Clockwise both channelsCable length50Standard cable length 500 mmXXCustom on request < 1 metreXXXCustom on request > 1 metre	7	Clockwise											
Cable length 50 Standard cable length 500 mm XX Custom on request <1 metre XXX Custom on request >1 metre	8												
50 Standard cable length 500 mm XX Custom on request < 1 metre		e.g. 77 = Clockwise both ch	hannels										
50 Standard cable length 500 mm XX Custom on request < 1 metre XXX Custom on request > 1 metre	Cab	le length											
XX Custom on request <1 metre XXX Custom on request >1 metre			0 mm										
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: 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

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