

Euro-CMRK Programmable Sensor Custom Micro Rotary Puck



- Puck and magnet design
- Hall Effect non-contacting technology
- Long life - extremely robust
- Programmable angles from 30° up to 360°
- IP68 protection
- Redundant output
- Customisable housing

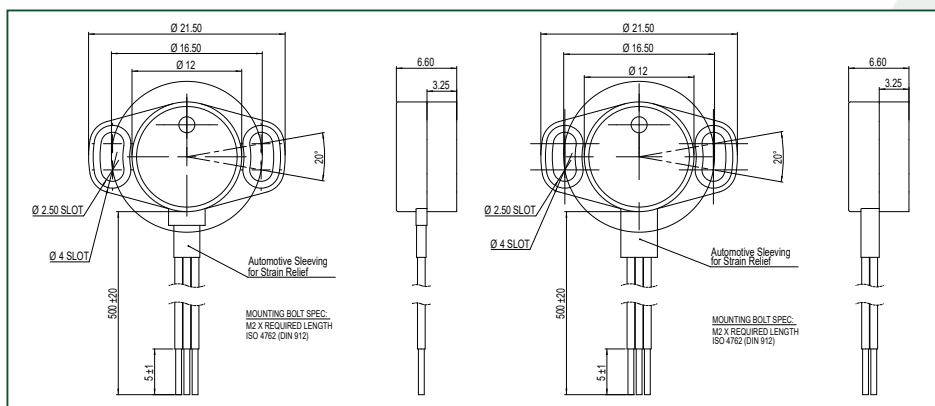


Based on the Euro-XPk the Euro-CMRK angle sensor is specifically aimed applications where miniaturisation is a key factor. The main sensor housing is manufactured from high grade aluminium alloy with an anodised finish and may be customised to exactly suit the application. The Euro-CMRK series' housing and magnet accessory dimensions are fully customisable dependant on customers' requirements. With redundant output this compact and fully non-contacting Hall Effect sensor features IP68 sealing and will suit arduous high-duty cycle position feedback applications.

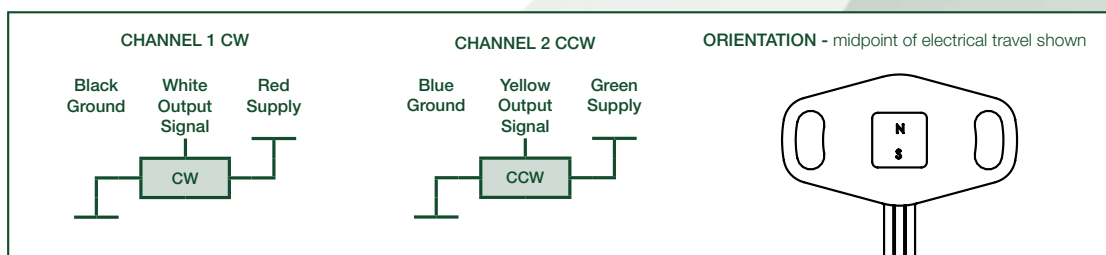
Specifications

Mechanical		Electrical	
Typical Life Cycle	In excess of 100 million cycles	Supply Voltage	5V +/- 0.5V
Measuring range	360° redundant, signal 1 cw, signal 2 ccw	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%
Housing	High grade anodised aluminium	Independant linearity	+/- 0.5% of each signal range
Recom. Mounting Bolt Torque	0.5- 0.63 Nm (may differ dependant on application)	Sample Rate (Fast Mode)	5 kHz
Environmental		System Propagation Delay (Fast Mode)	600 µs
Operating temperature	-40°C to +125°C (Short term 150°C)	Isolation resistance	200 MΩ (500 VDC, 1 bar, 2s)
Vibration	20...2000 Hz; Amax = 0.75 mm; amax = 31.4 g to IEC 60068-2-6	Electrical connection	See ordering code/wiring diagram
IP rating	IP68	Cable type	Raychem Spec 55, 24 AWG

Dimensions in mm



Wiring and orientation



PITCH TECHNOLOGIES

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☎ 01 34 85 54 68

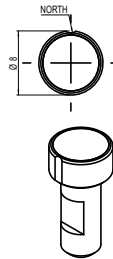
Subject to change without notice

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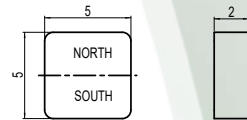
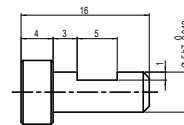


Magnet options - dimensions in mm

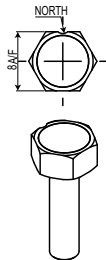
Magnet Code	Magnet Type	Distance from CMRK face
A	No magnet	
B	5x5x2 magnet	0.5 - 3 mm
C	M4 magnet	0.5 - 3 mm
D	Micro plug magnet	0.5 - 3 mm
E	M2 Female magnet	0.5 - 3 mm
X	Custom - on request	-



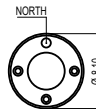
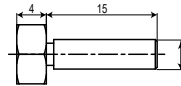
D - Micro Plug magnet



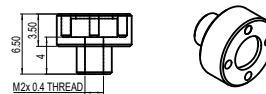
B - 5 x 5 x 2 magnet



C - M4 magnet



E - M2 Female magnet



Note for magnets: Maximum permitted radial offset = +/- 0.75 mm

Ordering information

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

Euro-CMRK - X - 1 1 1 - 1216 - 360 - 11 78 - 50

Series	Accompanying Magnet	Input Type	Output Type	Number of Channels	Mounting Flange PCD	Electrical Angle	Output Signal	Channel Direction	Cable Length
(Euro-Custom Micro Rotary Puck)	A - No magnet B - 5x5x2 magnet C - M4 magnet D - Micro Plug magnet E - M2 female magnet X - Custom - on request	1 - 5V Supply	1 - Analog Ratiometric 2 - PWM	1 - Single Channel 2 - Dual Channel	16 - 16.5mm 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 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)

Disclaimer: Specifications listed are only applicable when used in conjunction with Variohm specified magnets.

The following sensor models are typically available from stock:

95287 Euro-CMRK-A-112-1216-360-1178-50

95289 Euro-CMRK-A-112-1216-120-1178-50

95288 Euro-CMRK-A-112-1216-060-1178-50

The following magnets are typically available from stock:

17962 B-5x5x2 Magnet

94385 C-M4 Magnet

94386 D-Mikro Plug Magnet

94387 E - M2 Female Magnet

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