

# EURO-MXPK PROGRAMMABLE SENSOR MICRO PUCK SENSOR



CE R

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

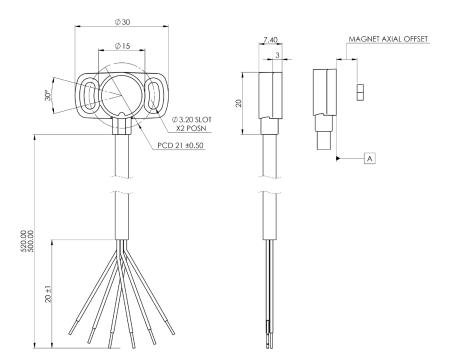
Based on the well proven Euro-XPK angle sensor, this miniaturised variant boasts the same features in a 30 mm outer diameter package. With programmable angle selection and redundant output, this extremely compact and fully contactless Hall Effect Sensor features IP68 sealing and will suit arduous, high-duty cycle position feedback applications in all industries.

Specifications		
Mechanical		
Typical Life Cycle	In excess of 100 million cycles	
Measuring range	360° redundant, signal 1 cw, signal 2 ccw	
Housing	High grade temperature resistant plastic	
Tightening torque	Maximum recommended tightening Torque 2Nm	
Mounting	Customer to ensure correct suitability and fitment of mounting bolts	
Weight	17 g	
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	
Electrical		
Supply Voltage	5V +/- 0.5V	
Output signal	Ratiometric 5%95% of supply (+/-25mv of specified electrical output range for both start and end voltage). PWM Frequency 100 Hz 1000 Hz default, duty cycle between 5% - 95%	
Independent linearity	+/- 0.5% of each signal range	
Sample Rate (Fast Mode)	5KHz	
System Propagation Delay (Fast Mode)	600µs	
Isolation resistance	200 MΩ (500 VDC, 1 bar, 2s)	
Electrical connection	See ordering code/wiring diagram	
Cable type	24 AWG PFA Insulated cable sheathed in a PUR Fuel/Diesel resistant jacket	

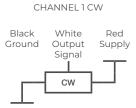
## **EURO-MXPK PROGRAMMABLE SENSOR** MICRO PUCK SENSOR



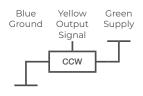
#### **Dimensions in mm**



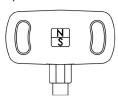
#### Wiring and orientation



CHANNEL 2 CCW

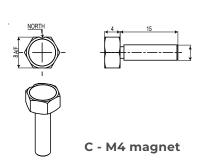


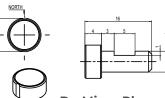
#### **ORIENTATION** midpoint of electrical travel shown

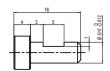


## Magnet options - dimensions in mm

Magnet Code	Magnet Type	Distance from MXPK face
A	No magnet	
В	5x5x2 magnet	0.25 - 2 mm
С	M4 magnet	0.25 - 1 mm
D	Micro plug magnet	0.25 - 1 mm
Е	M2 Female magnet	0.25 - 1.5 mm
X	Custom - on request	-









E - M2 Female magnet



D - Micro Plug magnet

B - 5 x 5 x 2 magnet







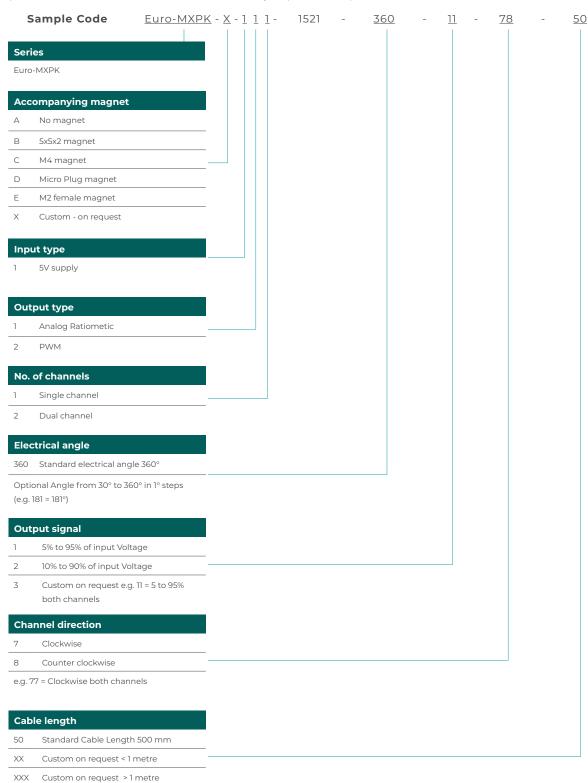
Note for magnets: Maximum permitted radial offset =  $\pm$  0.3 mm

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### **Ordering information**

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



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

### The following magnets are typically available from stock:

17962 B-5x5x2 Magnet 94385 C-M4 Magnet 94386 D-Micro Plug Magnet 94387 E - M2 Female Magnet