EURO-MXPK PROGRAMMABLE SENSOR
MICRO PUCK SENSOR



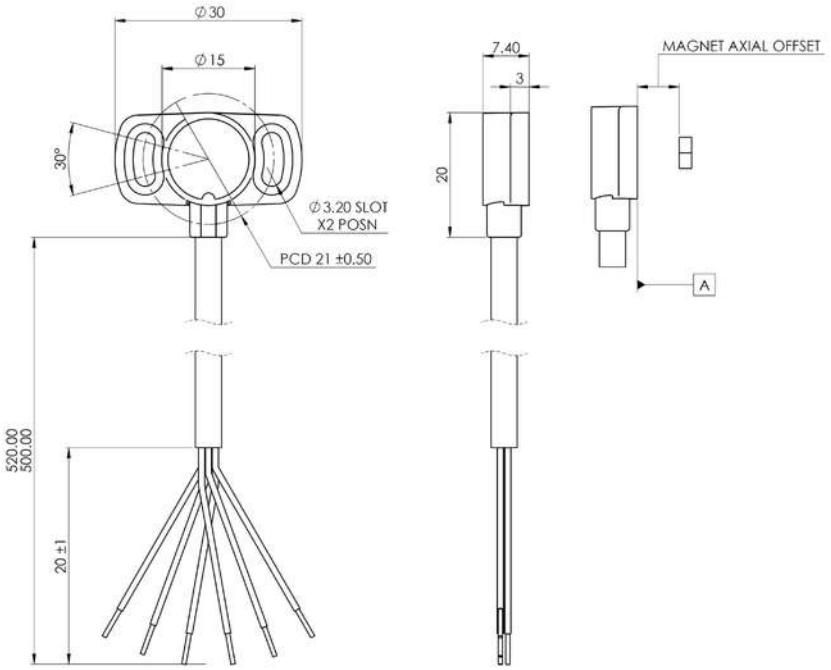
- **Programmable angles from 30° up to 360°**
- **Puck and Magnet design**
- **Hall Effect non-contacting technology**
- **Long life - extremely robust**
- **IP68 protection**
- **Redundant output**

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.

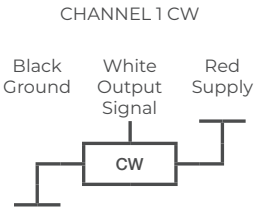
Specifications	
Mechanical	
Typical Life Cycle	In excess of 100 million cycles
Measuring range	360° redundant, signal 1 cw, signal 2 ccw
Housing	High grade temperature resistant plastic
Tightening torque	Maximum recommended tightening Torque 2Nm
Mounting	Customer to ensure correct suitability and fitment of mounting bolts
Weight	17 g
Environmental	
Operating temperature	-40° C to +125° C (Short term 150° C)
Vibration	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 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

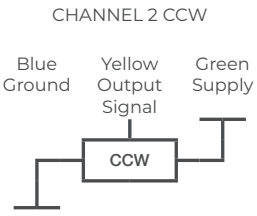
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Dimensions in mm

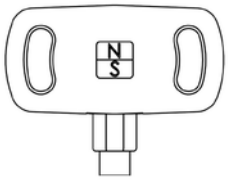


Wiring and orientation



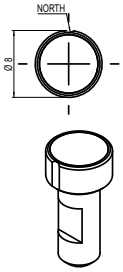


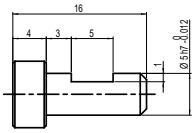
ORIENTATION -
midpoint of electrical travel shown



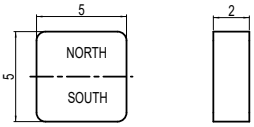
Magnet options - dimensions in mm

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

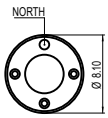




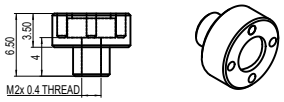
D - Micro Plug magnet

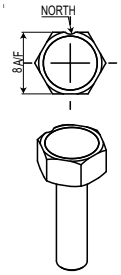


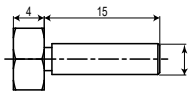
B - 5 x 5 x 2 magnet



E - M2 Female magnet







C - M4 magnet

Note for magnets: Maximum permitted radial offset = +/- 0.3 mm

Ordering information

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

Sample Code Euro-MXPK - X - 1 1 1 - 1521 - 360 - 11 - 78 - 50

Series

Euro-MXPK

Accompanying magnet

A	No magnet
B	5x5x2 magnet
C	M4 magnet
D	Micro Plug magnet
E	M2 female magnet
X	Custom - on request

Input type

1	5V supply

Output type

1	Analog Ratiometic
2	PWM

No. of channels

1	Single channel
2	Dual channel

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
XXX	Custom on request > 1 metre

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

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MICRO PUCK SENSOR

The following sensor models are available as standard products:

95531 Euro-MXPK-A-111-1521-360-1-7-50
95532 Euro-MXPK-A-111-1521-120-1-7-50
95533 Euro-MXPK-A-111-1521-060-1-7-50
95534 Euro-MXPK-A-112-1521-360-11-78-50
95535 Euro-MXPK-A-112-1521-120-11-78-50
95536 Euro-MXPK-A-112-1521-060-11-78-50

The following magnet models are available as standard products:

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