EURO XPK PUCK TYPE PROGRAMMABLE SENSOR



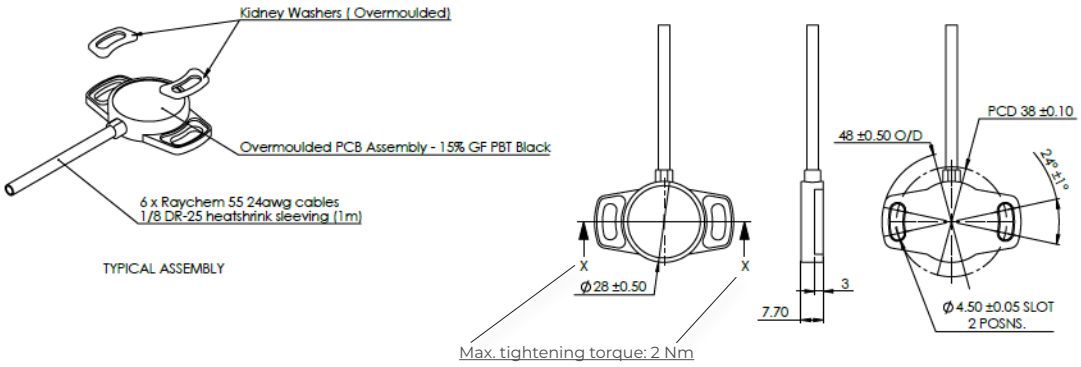
- **Puck and magnet design**
- **Hall Effect non-contacting technology**
- **Long life - extremely robust**
- **Programmable angles from 30° up to 360°**
- **IP68 protection**
- **Redundant output**

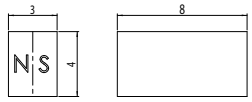
Based on the well proven 28 mm diameter Euro-XP angle sensor, the puck option is a two piece design with a separate magnet. With redundant output this compact and fully non-contacting Hall Effect sensor features IP68 sealing and will suit arduous high-duty cycle position feedback applications.

Specifications	
Mechanical	
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
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
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
Sample Rate (Fast Mode)	5 kHz
System Propagation Delay (Fast Mode)	600 µs
Isolation resistance	200 MΩ (500 VDC, 1 bar, 2s)
Electrical connection	See ordering code/wiring diagram
Cable Type	Raychem Spec 55, 24 AWG; Sleeving - Raychem DR25

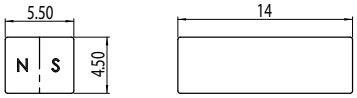
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Dimensions in mm

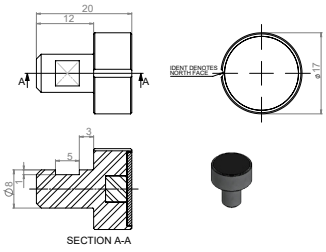




Small magnet -01

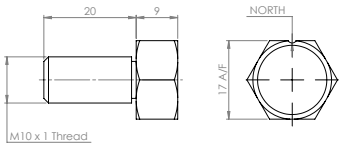


Large magnet -03



Plug magnet -04

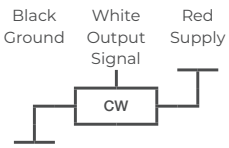
Magnet type	Distance from XPK Face
M10 Screw Magnet	0,5 - 5 mm
Small Magnet	0 - 2 mm
Large Magnet	1,5 - 6 mm
Plug Magnet	0,5 - 5 mm



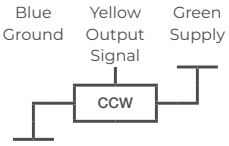
M10 magnet - 02

Notes for magnets: Maximum permitted radial offset = +/- 1 mm

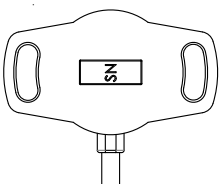
CHANNEL 1 CW



CHANNEL 2 CCW



ORIENTATION - midpoint of electrical travel shown



Mating face of XPK

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Ordering information

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

Sample Code Euro-XPK - 2838 - 8xx - 2 1 4 - 911 - 00*

Series

Euro-XPK

Mechanical version

38 = seperate Puck und Magnet Design

Electrical Angle

36 =	Standard electrical angle 360°
xx =	Optional angle - from 30° to 360°/ in 10° steps (z.B. 08=80°)

Supply voltage Ub

2 = Ub = 5 VDC

Interface parameters

1 =	5...95%, ratiometric to supply voltage Ub (0,25...4,75 VDC)
2 =	10..90% ratiometric to supply voltage Ub (0,5...4,5 VDC)
3 =	PMW

Output characteristics

1	Rising characteristic cw
2	Rising characteristic ccw
4	Crossed outputs, channel 1 rising cw

Other output characteristics on request

Electrical Connection Cable Length

911 = Raychem Spec 55, 24 AWG;
Sleeving - Raychem
DR25
XL ETFE:
Ø = 0,94 mm; 0,24 mm²;
L = 500 mm (+/- 10 mm)

Magnet choice

00	No magnet
01	Small magnet
02	Screw magnet
03	Large magnet
04	Plug magnet

*** Note - Magnet options 01, 02, 03 or 04 are selected in the ordering code and a single magnet is included.**
Additional or alternative magnets can be ordered separately as spare parts using the following codes:

93816 - XPK Small Magnet-01
93817 - XPK M10 Magnet-02
93818 - XPK Large Magnet-03
94031 - XPK Plug Magnet-04

Un-housed magnets do not have polarity marked but can be marked if requested.
Custom magnet housings are available.

The following sensor models are typically available from stock:

93753 Euro-XPK-2838-836-214-911-00
95293 Euro-XPK-2838-806-214-911-00
95294 Euro-XPK-2838-812-214-911-00
95295 Euro-XPK-2838-818-214-911-00
93816 XPK Small Magnet-01
93817 XPK M10 Magnet-02
93818 XPK Large Magnet-03
94031 XPK Plug Magnet-04