EUROSENSOR

EURO-MXPS PROGRAMMABLE SENSOR MICRO SHAFT SENSOR



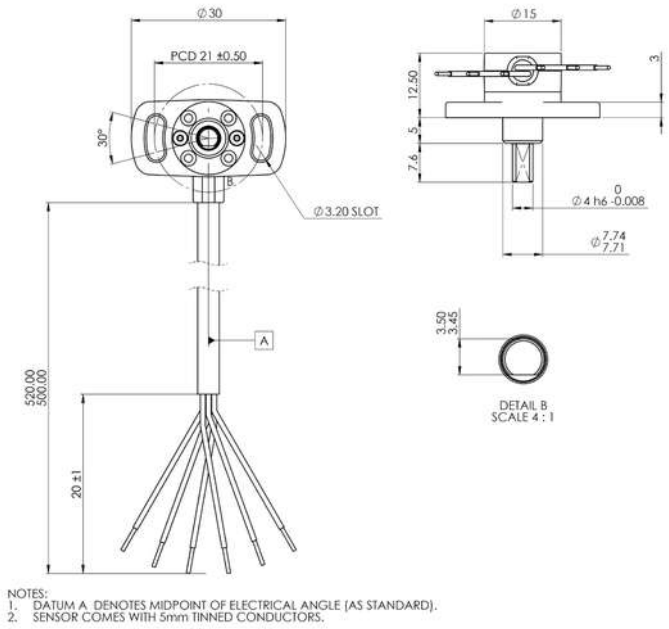


- **Programmable angles from 30° up to 360°**
- **4mm D-Shaft Rotary Sensor**
- **Hall Effect Non-Contact technology**
- **Long life - extremely robust**
- **IP68 protection**
- **Selectable mounting options & customisable shaft options**
- **Redundant output**

Based on the well proven AM-RSS 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 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	>50 million movements (restriction by mechanics)
Torque	< 0.8 Ncm
Measuring range	360° redundant, signal 1 cw, signal 2 ccw
Housing	High grade temperature resistant plastic
Shaft	Stainless steel 316
Bearing	Oilite
Tightening torque	Maximum recommended tightening Torque 2Nm
Mounting	Customer to ensure correct suitability and fitment of mounting bolts
Weight	23 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 & end voltage) PWM frequency 100Hz... 1000Hz, 1000Hz default, duty cycle between 5%-95%
Sample Rate (Fast Mode)	5kHz
System Propagation Delay (Fast Mode)	600µs
Independent 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	24 AWG PFA insulated cable sheathed in a PUR Fuel/Diesel resistant jacket

Dimensions in mm



Wiring



Ordering information

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

Sample Code Euro-MXPS - D - 1 1 1 - 1521 - 360 - 11 - 78 - 50

Series

Euro-MXPS

Shaft

D	Standard Male D Shaft (4mm Ø)
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

The following sensor models are available as standard products:

95528 Euro-MXPS-D-112-1521-360-1178-50