



## Potentiometer Rotary Position Sensors

- Conductive plastic track for durability
- Multi fingered wipers for excellent contact under vibration
- Wide temperature range
- Simple mounting
- Outstanding repeatability
- Excellent linearity
- Long life

The VTP11 rotary position sensor combines well-proven resistive element technology and convenient 8 mm D-shaft mounting in a durable and low cost IP66 rated package that ensures reliable and long-life operation for high performance motorsports and specialist vehicle position sensing applications including throttle, steering angle, suspension and sequential gearbox.

The 28 mm diameter SP2800 series angle sensor features long life conductive plastic technology that is ideal for arduous autosports position feedback applications including sequential gearbox, steering angle, throttle and suspension measurement. Available in durable temperature resistant plastic or aluminium housings, this IP67 rated sensor has an operating temperature range of -40 to +150 °C.



Product	Range degrees	Typical Linearity	Life cycles 10 <sup>6</sup>	Working temperature °C	Mechanical interface	Supply voltage	Housing
VTP11 	97	-	>5	-25 to 125 (Short term 150)	Ø8 mm D-Shaft	5...24 VDC	Glass-filled PBT
SP2800 	0..100°-345°	± 0.5 ... 0.3%	>50	-40 to 150°C	Ø6mm Flat or push on	42 VDC	Durable temperature resistant plastic or Aluminium

## Hall Effect Miniatur Sensors: CMR Series

- Selectable and customisable mounting and housing options
- Small, robust and long life
- Programmable angles from 30° to 360°
- IP68 protection
- Redundant output

The Euro-CMRx Series angle sensors are specifically aimed at arduous high-duty position feedback applications where miniaturisation is a key factor.

With programmable angle selection and redundant output, these compact and contactless IP68 rated Hall Effect sensors feature a high grade aluminium housing with stainless steel shaft that are both mechanically customisable to suit the customer's application.

Product	Range degrees	Typical Linearity	Life cycles 10 <sup>6</sup>	Working temperature °C	Supply Voltage	Housing	Output Signal
CMRK 	0°...30° to 0°... 360°	± 0.5%	> 100	-40 to +125 (Short term 150)	5V ±0.5V	High grade anodised aluminium	0.25 - 4.75 V ratiometric PWM, 1- or 2- channel option
CMRS 	0°...30° to 0°... 360°	± 0.5%	> 50	-40 to +125 (Short term 150)	5V ±0.5V	High grade anodised aluminium, Shaft: Stainless steel 316	0.25 - 4.75 V ratiometric PWM 1- or 2- channel option
CMRT 	0°...30° to 0°... 360°	± 0.5%	> 50	-40 to +125 (Short term 150)	5V ±0.5V	High grade anodised aluminium, Shaft: Stainless steel 316	0.25 - 4.75 V ratiometric PWM 1- or 2- channel option

## Hall Effect Standard Sensors

- 0 to 360° position sensing
- analog or PWM Output
- Reverse Polarity Protection
- Temperature operation from -40° to + 125° C
- Redundant output
- Long Life, extremely robust
- Programmable angles from 30° to 360°
- IP67/IP68 protection








The R2 Series absolute rotary position sensors can be configured for analog or PWM output. The analog transfer characteristic is programmable for sensing any range of angles between 0° and 360°. With sensing technology housed in a rugged, reinforced nylon housing, these sensors provide a low cost solution for demanding applications.

The Euro-XP angle sensor series is specifically aimed at arduous high-duty cycle position feedback applications in all areas of motorsports such as sequential gearbox, throttle and suspension measurement.

The RSS and CRSS series programmable angle sensors offer a flexible range of performance for high duty cycle position feedback applications in all areas of industry. With programmable angle selection, and a choice of U-Shaft, D-Shaft and Spring Coupling mounting shafts as standard as well as numerous input and output options (including redundant).

By combining separate single-turn angle detection and multi rotation detection, the Euro MT Multiturn sensor is able to measure angles across multiple turns providing high resolution and accuracy (electrical angles 720° up to 5760° in 360° steps).

## Hall Effect Standard Sensors

Product	Range degrees	Typical Linearity	Life cycles 10°	Working temperature °C	Supply Voltage	Housing	Output Signal
R2 Series 	0°...30° to 0°... 360°	± 0.5%	> 100	-40 to +125	4.5 to 5.5 VDC	Reinforced nylon	0.25 - 4.75 V ratiometric, PWM, 1- channel
Euro XPD 	0°...30° to 0°... 360°	± 0.5%	> 50	-40 to +125 (Short term 150)	5V ± 0.5V	High grade temperature resistant plastic	0.25 - 4.75 V ratiometric PWM, 1- or 2- channel option
Euro XPK 	0°...30° to 0°... 360°	± 0.5%	> 100	-40 to +125 (Short term 150)	5V ± 0.5V	High grade temperature resistant plastic	0.25 - 4.75 V ratiometric PWM, 1- or 2- channel option
RSS 	0°...30° to 0°... 360°	± 0.5%	> 50	-40 to +125 (Short term 150)	5V ± 0.5V	High grade temperature resistant plastic	0.25 - 4.75 V ratiometric PWM, 1- or 2- channel option
CRSS 	0°...30° to 0°... 360°	± 0.5%	> 50	-40 to +125 (Short term 150)	5V ± 0.5V	High grade temperature resistant plastic with anodised aluminium alloy mounting flange	0.25 - 4.75 V ratiometric PWM, 1- or 2- channel option
Euro-XP 	0°...30° to 0°... 360°	± 0.5%	> 50	-40 to +125 (Short term 150)	5V ± 0.5V	High grade temperature resistant plastic or anodised aluminium	0.25 - 4.75 V ratiometric, 1- or 2- channel option
Euro MT 	720° - 5760°	± 0.1%	> 50	-40 to +85	5VDC ± 0.5V	High grade temperature resistant plastic	0.25 - 4.75 V ratiometric, 1- or 2- channel option

## Inductive Rotary Sensors

- Durable, affordable
- High accuracy
- Outstanding repeatability and stability
- Wide temperature range
- For Industrial and scientific feedback applications
- Suitable for OEMs
- Simple mounting

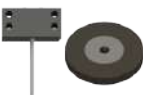

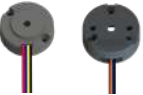
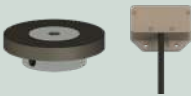
The non-contacting Rotary Sensors from Positek use patented, inductive sensor technology. They operate without wear or interference in all applications, offering unrivalled reliability, and exceptionally accurate angle measurement and are well suited to even in the harshest of environments. They can be used in rotation angle applications such as industrial valves and waterjet propulsion systems and offer angular position measurement capabilities from between 5° and 160°.

Product	Range degrees	Linearity	Sensor Mounting	Working temperature °C	Intrinsically safe	Output Signals
<b>500 Series</b> 	0°...16° to 0°...160°	± 0.25% FSO	Flange or Servo	-40 to +125	Submersible, Gas, Dust, Mining	Standard: 0.5 to 4.5 V DC ratiometric  OTHER OPTIONS: • 0.5 to 4.5 V DC • ± 5V DC • ± 10V DC • 0.5 to 9.5 V DC • 4 to 20mA
<b>501 Series</b> 	0°...30° to 0°... 140°	± 0.31% FSO	Flange	-40 to +125	n / a	0.5 to 4.5 VDC ratiometric
<b>502 Series</b> 	0°...5° to 0°... 15°	± 0.25% FSO	Flange or Servo	-40 to +125	Gas, Dust, Mining	Standard: 0.5 to 4.5 V DC ratiometric  OTHER OPTIONS: • 0.5 to 4.5 V DC • ± 5V DC • ± 10V DC • 0.5 to 9.5 V DC • 4 to 20mA
<b>503 Series</b> 	0°...7.5° to 0°...80°	± 0.5% FSO	PCB	-40 to +125	n / a	Standard: 0.5 to 4.5 V DC ratiometric  OTHER OPTIONS: • 0.5 to 4.5 V DC • ± 5V DC • ± 10V DC • 0.5 to 9.5 V DC • 4 to 20mA
<b>505 Series</b> 	0°...15° to 0°...160°	± 0.25% FSO	Flange or Servo	-40 to +125	Gas, Dust, Mining	Standard: 0.5 to 4.5 V DC ratiometric  OTHER OPTIONS: • 0.5 to 4.5 V DC • 0.5 to 9.5 V DC • 4 to 20mA
<b>S623</b> 	0°...7.5° to 0°...80°	± 0.25% FSO	Flange	-4 to +50	submersible	Standard: 0.5 to 4.5 V DC ratiometric  OTHER OPTIONS: • 0.5 to 4.5 V DC • ± 5V DC • ± 10V DC • 0.5 to 9.5 V DC • 4 to 20mA

## Incremental Rotary Hollow Shaft Encoders

- 2 Channel output
- Durable, affordable
- Outstanding speed, direction and relative position feedback
- Wide temperature range
- For industrial, heavy duty or servo/light applications
- Simple mounting

The incremental encoders provide excellent speed, direction, and relative position feedback and are used in positioning and motor speed feedback applications which include industrial, heavy-duty or servo/light applications. Rotary incremental encoders come with hollow-shaft, bearingless mounting options.

Product	Type	Working temperature °C	Output Voltage (VDC)	Resolution PPR	Output Type
Encoder Kit M Series 	Low Resolution	-40 to +125	32 V	1 - 40 pulse per channel	2 channel quadrature output
Encoder Kit L Series 	Low Resolution	-40 to +125	32 V	4, 6, 8, 10 up to 30 pulse per channel	bi-directional two channel incremental quadrature output
Encoder Kit H Series 	High Resolution	-40 to +125	5 V / 6 - 24 V	32 - 2500 pulse per channel	bi-directional two channel incremental quadrature output
Encoder Module N Series 	High Resolution	-40 to +125	5 V / 6 - 24 V	option up to 5000 pulses per channel	2 channel quadrature output

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