

Angular Position Transducers

- **Contactless Capacitive Design**
- **Continuous Analog Output**
- **0-5° to 0-270° Ranges**
- **Low-Torque Design**



ISO 9001 : 2000



Model	Kinax 3W2	Kinax WT 710	Kinax WT 707	Kinax SR 709
Application	OEM	Heavy Duty OEM, Add-on	Heavy Duty Machinery	Linear and Valve Position
Input Ranges	0-5° to 0-270°, no stops	0-5° to 0-270°, no stops	0-5° to 0-270°, no stops	0-10 mm to 0-140 mm stroke
Input Direction	CW, CCW, bidirectional	CW, CCW, bidirectional	CW, CCW, bidirectional	Up or Down
Accuracy <150°, Typical	Better than ±0.5%	Better than ±0.5%	Better than ±0.5%	Better than ±0.5% linearity
Accuracy 150°-270°, Typ.	Better than ±1.5%	Better than ±1.5%	Better than ±1.5%	-
Output Ranges	0-1 mA to 4-20 mA	0-1 mA to 4-20 mA	0-1 mA to 4-20 mA	0-1 mA to 4-20 mA
Zero Adjust, Approx.	±5%	±5%	±5%	±5%
Span Adjust, Approx.	-30% to +5%	-30% to +5%	-30% to +5%	-30% to +5%
Response Time	< 5 ms	< 5 ms	< 5 ms	< 5 ms
Connections	Solder terminals	Covered screw terminals & cable glands	Covered screw terminals & cable glands	Covered screw terminals & cable glands
Connections, Optional	Screw terminals	-	Plug-in connector	-
Shaft	2 mm dia x 6 mm L	2 mm dia x 6 mm L	19 mm dia x 32.5 mm L	Lever arm
Torque	< 0.0009 lb-in	< 0.0009 lb-in	Approx. 2.1 lb-in	Spring loaded
Shaft, Optional	6 mm dia x 12 mm L or 1/4" dia x 12 mm L	6 mm dia x 12 mm L or 1/4" dia x 12 mm L	-	-
Torque, w. Optional Shaft	< 0.0265 lb-in	< 0.0265 lb-in	-	-
Housing Diameter	48 mm	80 mm	102 mm	105 mm
Gear Reduction	-	Optional 1:4 to 64:1	Optional 2:1 to 1600:1	-
Housing Type	Anodized aluminum	Coated cast aluminum	QPQ nitrocarburized steel	Coated cast aluminum
Mounting	Direct mount	Direct mount	Direct mount	Direct mount
Mounting, Optional	-	Mounting clamps	Mounting foot or flange	NAMUR mounting clamp
Ambient	-25 to 70 °C	-25 to 70 °C	-25 to 70 °C	-25 to 70 °C
Ambient, Optional	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C
Power Supply	12-33 VDC	12-33 VDC	12-33 VDC	12-33 VDC
Power Supply, Optional	-	24-60 VAC/VDC or 85-230 VAC/VDC	24-60 VAC/VDC or 85-230 VAC/VDC	24-60 VAC/VDC or 85-230 VAC/VDC

Ang. Position



Kinax 3W2
OEM Transducer



Kinax WT 710
Heavy Duty OEM

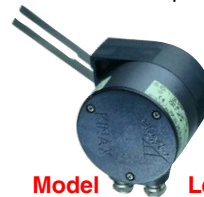


Model	Range	Direction	Shaft	Output	Power
708-112D	0-30°	CW	2 mm	4-20 mA	12-33 VDC
708-113D	0-60°	CW	2 mm	4-20 mA	12-33 VDC
708-114D	0-90°	CW	2 mm	4-20 mA	12-33 VDC
708-116D	0-270°	CW	2 mm	4-20 mA	12-33 VDC
708-1___	Specify	Specify	Specify	Specify	12-33 VDC

Model	Range	Direction	Shaft	Output	Power
710-112D	0-30°	CW	2 mm	4-20 mA	12-33 VDC
710-113D	0-60°	CW	2 mm	4-20 mA	12-33 VDC
710-114D	0-90°	CW	2 mm	4-20 mA	12-33 VDC
710-116D	0-270°	CW	2 mm	4-20 mA	12-33 VDC
710-1___	Specify	Specify	Specify	Specify	Specify



Kinax WT 707
Heavy Duty Transducer



Kinax SR 709
Linear Transducer

Model	Range	Direction	Shaft	Output	Power
707-112D	0-30°	CW	19 mm	4-20 mA	12-33 VDC
707-113D	0-60°	CW	19 mm	4-20 mA	12-33 VDC
707-114D	0-90°	CW	19 mm	4-20 mA	12-33 VDC
707-116D	0-270°	CW	19 mm	4-20 mA	12-33 VDC
707-1___	Specify	Specify	Specify	Specify	Specify

Model	Lever Direction	Output	Power
709-10DA00	Down = 4 mA	4-20 mA	12-33 VDC
709-11DA00	Up = 4 mA	4-20 mA	12-33 VDC
709-1___	Specify	Specify	Specify

See technical data sheets for complete specifications or consult factory



Kinax Programmable Angular Position Transducers

- **Contactless Capacitive Design**
- **Continuous Analog Output**
- **0-5° to 0-350° Ranges**
- **Low-Torque Design**
- **PC Programmable**



ISO 9001 : 2000



Model	Kinax 2W2	Kinax WT 711	Kinax WT 717	Kinax SR 719
Application	OEM	Heavy Duty OEM, Add-on	Heavy Duty Machinery	Linear and Valve Position
Input Range Version "1"	0-10° to 0-50°, no stops	0-10° to 0-50°, no stops	0-10° to 0-50°, no stops	0-10 mm to 0-40 mm stroke
Input Range Version "2"	0-50° to 0-350°, no stops	0-50° to 0-350°, no stops	0-50° to 0-350°, no stops	0-40 mm to 0-140 mm stroke
Direction, Programmable	CW, CCW, bidirectional	CW, CCW, bidirectional	CW, CCW, bidirectional	Up or Down
Accuracy, Typical	Better than ±0.5%	Better than ±0.5%	Better than ±0.5%	Better than ±0.5% linearity
Output Ranges	0-1 mA to 4-20 mA	0-1 mA to 4-20 mA	0-1 mA to 4-20 mA	0-1 mA to 4-20 mA
Zero, Span Adjust	±5%, ±5%	±5%, ±5%	±5%, ±5%	±5%, ±5%
Output Programmability	Linear, Curved, Simulation, Acquisition	Linear, Curved, Simulation, Acquisition	Linear, Curved, Simulation, Acquisition	Linear, Curved, Simulation, Acquisition
Response Time	< 5 ms	< 5 ms	< 5 ms	< 5 ms
Connections	Solder terminals	Covered screw terminals & cable glands	Covered screw terminals & cable glands	Covered screw terminals & cable glands
Connections, Optional	Screw terminals	-	Plug-in connector	-
Shaft	2 mm dia x 6 mm L	2 mm dia x 6 mm L	19 mm dia x 32.5 mm L	Lever arm
Torque	< 0.0009 lb-in	< 0.0009 lb-in	Approx. 2.1 lb-in	Spring loaded
Shaft, Optional	6 mm dia x 12 mm L or 1/4" dia x 12 mm L	6 mm dia x 12 mm L or 1/4" dia x 12 mm L	-	-
Torque, w. Optional Shaft	< 0.0265 lb-in	< 0.0265 lb-in	-	-
Housing Diameter	48 mm	80 mm	102 mm	105 mm
Gear Reduction	-	Optional 1:4 to 64:1	Optional 2:1 to 1600:1	-
Housing Type	Anodized aluminum	Coated cast aluminum	QPQ nitrocarburized steel	Coated cast aluminum
Mounting	Direct mount	Direct mount	Direct mount	Direct mount
Mounting, Optional	-	Mounting clamps	Mounting foot or flange	NAMUR mounting clamp
Ambient	-25 to 70 °C	-25 to 70 °C	-25 to 70 °C	-25 to 70 °C
Ambient, Optional	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C
Power Supply	12-33 VDC	12-33 VDC	12-33 VDC	12-33 VDC
Power Supply, Optional	-	24-60 VAC/VDC or 85-230 VAC/VDC	24-60 VAC/VDC or 85-230 VAC/VDC	24-60 VAC/VDC or 85-230 VAC/VDC



Kinax 2W2 OEM Transducer



Model	Range	Terminals	Shaft	Output	Power
760-1111	0-50°	Solder	2 mm	4-20 mA	12-33 VDC
760-1211	50-350°	Solder	2 mm	4-20 mA	12-33 VDC
760-1_____	Specify	Specify	Specify	Specify	12-33 VDC



Kinax WT 711 Heavy Duty OEM



Model	Range	Shaft	Output	Power
711-1111	0-50°	2 mm	4-20 mA	12-33 VDC
711-1211	50-350°	2 mm	4-20 mA	12-33 VDC
711-1_____	Specify	Specify	Specify	Specify



Kinax WT 717 Heavy Duty Transducer



Model	Range	Shaft	Output	Power
717-1111	0-50°	19 mm	4-20 mA	12-33 VDC
717-1211	50-350°	19 mm	4-20 mA	12-33 VDC
717-1_____	Specify	Specify	Specify	Specify



Kinax SR 719 Linear Transducer

Model	Lever Direction	Output	Power
719-10DA0	Down = 4 mA	4-20 mA	12-33 VDC
719-11DA0	Up = 4 mA	4-20 mA	12-33 VDC
719-1_____	Specify	Specify	Specify

Kinax Programming Cables & Software

PK 610-B Programming cables and V 600 Plus software

See technical data sheets for complete specifications or consult factory
Can be factory programmed to your specifications

API maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory for your specific requirements.