



Rotation angle
transmitters

Custom-made rotation angle transmitters



Angle measurement technology «application-tested».

The KINAX positional transmitters converts an angular movement into a proportional direct-current signal from 0...1 to 0/4...20 milliamperes. The angular measuring range can be calibrated from 0...5 to 0...270 degree. With optional gearing these variables may even be lower or higher.

The capacitance scanning system is patented and has proved its worth in applications in different industries for many years. It involves a

non-contact method which is, therefore, completely free of any wear and tear.

Typology of the KINAX program:

KINAX 3W2: The small dimensions of this model make it suitable for inclusion within other mechanical devices.

KINAX WT710: large more robust version than 3W2 can now be mounted externally onto existing process or industrial systems.

One of the attractions of the 3W2 & WT710 is the freedom of movement and negligible friction that this design imposes on the measurement system.

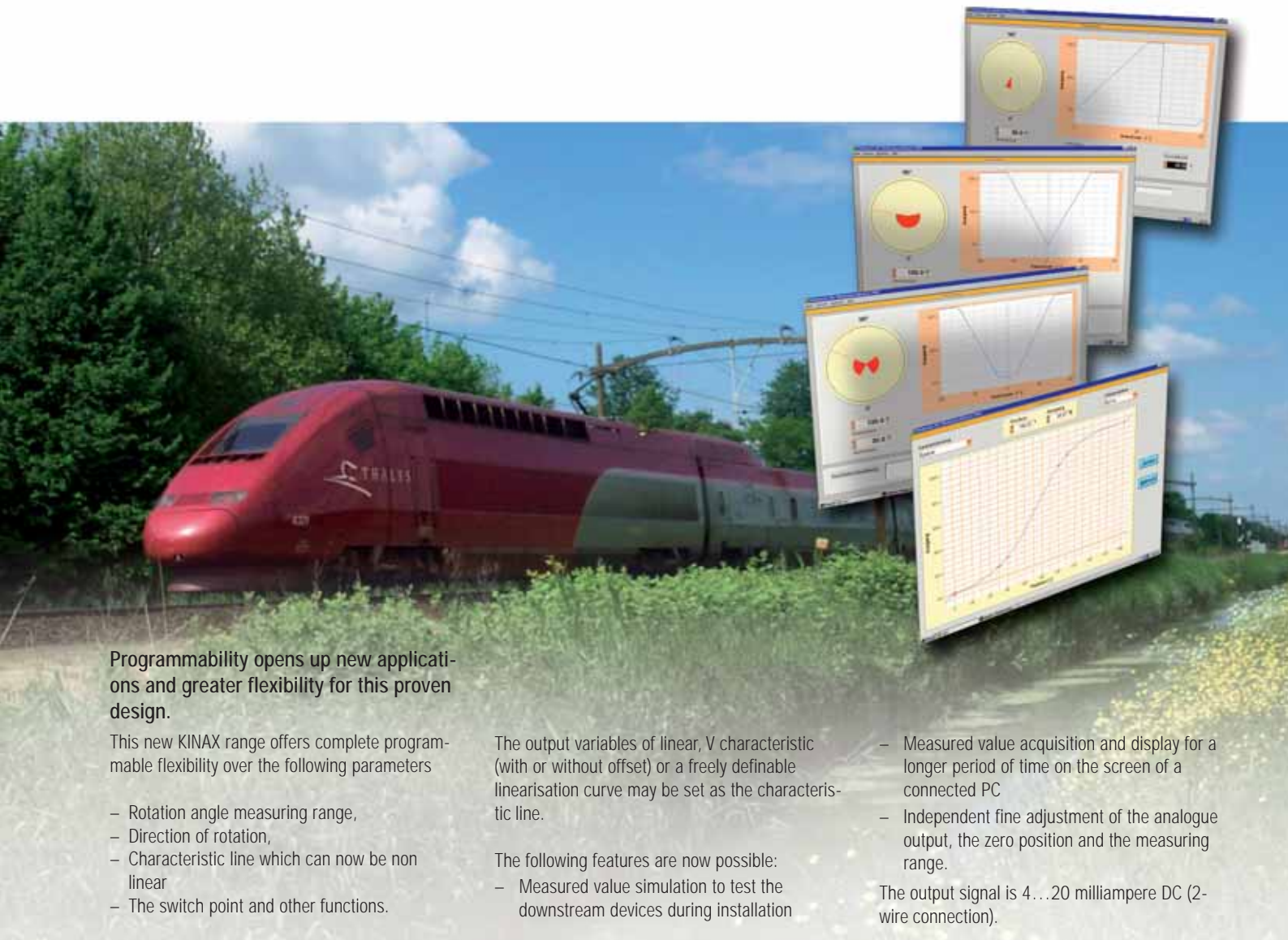
KINAX WT707: This robust design is ideally suited to for heavy duty applications both on and off shore.

KINAX SR709: This device is able to convert a linear movement from 0...10 to 0...140 mm into a 4...20 mA signal.

Features		KINAX 3W2	KINAX WT710	KINAX WT707	KINAX SR709
Application		OEM equipment	Proces and industrial	Heavy plant and machinery	Linear position
Measuring range	[°]	0...5 to 0...270	0...5 to 0...270	0...5 to 0...270	0...10 to 0...140 mm
EEx ia T5/T6 IIC (option)		•	•	•	•
Programmable		—	—	—	—
Output signal	[mA]	0...1 to 0/4...20	0...1 to 0/4...20	0...1 to 0/4...20	0...1 to 0/4...20
Power supply	[V]	12...33 (Ex: 12...30)	12...33 (Ex: 12...30)	12...33 (Ex: 12...30)	12...33 (Ex: 12...30)
Power supply DC/AC (option)	[V]	—	24...60 / 85...230	24...60 / 85...230	24...60 / 85...230
Accuracy	[%]	0.5 / 1.5*	0.5 / 1.5*	0.5 / 1.5*	0.5
Friction moment	[Ncm]	0.001 or 0.03**	0.001 or 0.03**	8	—
Drive shaft	Ø [mm]	2, 6 or 1/4 inch	2, 6 or 1/4 inch	19	—
Housing	Ø [mm]	48	80	102	105
Ingress protection of housing		IP 50	IP 43	IP 66	IP 54
GL certificate		•	—	•	—

* For measuring range < 150°, accuracy 0.5%

Programmable angular and linear transmitters



Programmability opens up new applications and greater flexibility for this proven design.

This new KINAX range offers complete programmable flexibility over the following parameters

- Rotation angle measuring range,
- Direction of rotation,
- Characteristic line which can now be non linear
- The switch point and other functions.

The output variables of linear, V characteristic (with or without offset) or a freely definable linearisation curve may be set as the characteristic line.

The following features are now possible:

- Measured value simulation to test the downstream devices during installation

- Measured value acquisition and display for a longer period of time on the screen of a connected PC
- Independent fine adjustment of the analogue output, the zero position and the measuring range.

The output signal is 4...20 milliampere DC (2-wire connection).

Features		KINAX 2W2	KINAX WT711	KINAX WT717	KINAX SR719
Application		OEM equipment	Process and industrial	Heavy plant and machinery	Linear position
Measuring range	[°]	0...10 to 0...50 and 0...50 to 0...350	0...10 to 0...50 and 0...50 to 0...350	0...10 to 0...50 and 0...50 to 0...350	0...10 to 0...140 mm
EEx ia T5/T6 IIC (option)		•	•	•	
Programmable		•	•	•	•
Output signal	[mA]	4...20	4...20	4...20	4...20
Power supply	[V]	12...33 (Ex: 12...30)	12...33 (Ex: 12...30)	12...33 (Ex: 12...30)	12...33
Power supply DC/AC (option)	[V]	—	—	—	—
Accuracy	[%]	0.5	0.5	0.5	0.5
Friction moment	[Ncm]	0.001 or 0.03**	0.001 or 0.03**	8	—
Drive shaft	Ø [mm]	2, 6 or 1/4 inch	2, 6 or 1/4 inch	19	—
Housing	Ø [mm]	48	80	102	105
Ingress protection of housing		IP 50	IP 43	IP 66	IP 54

** Shaft Ø 2 or 6 mm or 1/4 inch

Every angle can be measured!

Customer benefit

- Free of maintenance
- Very exact
- Reliable
- Resistant in rough environment
- May be used in hazardous areas



Product feature

- Capacitive scanning system
- Sophisticated mechanics and electronics
- Long-term stability
- Up to IP 66 of housing
- Available «intrinsically safe» EEx ia IIC T6

KINAX angular position transmitters have been used for years in:

- Wastewater treatment plants
- Automotive industry
- Dredger construction
- Chemical industry
- Railway construction
- Energy generation
- Building automation
- Instrument industry
- Machine construction
- Milk processing
- Food industry
- Offshore
- Paper industry
- Petro-chemical industry
- Shipping
- Tank farms
- Wind generators
- Water plants, etc.

Our angular position transmitters prove their worth particularly in extremely rough environmental conditions.

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