

## KINAX N702-SSI Absolute inclination transmitter

### For robust industrial applications

The KINAX N702-SSI is a robust absolute inclination transmitter. Thanks to its high mechanical strength and the compact design it is particularly suitable for use in industrial applications. It detects tilt and angular positions and provides them via SSI.

The very simple assembly by the synchro flange or mounting plate, the sensor connection via M12x1/8 poles, the free on-site parameterization and the digital SSI-Businterface offers maximum installation flexibility.



## Your benefits

#### **TOP QUALITY TESTED**

- Compact industrial housing
- Splash and dust proof housing IP66
- Contact arm measuring principle
- Digital SSI Businterface

#### **ACCURATE, SAFE, MAINTENANCE FREE**

- High degree of absolute measuring accuracy (±0.2°)
- Resistant against high mechanical strains thanks to robust design and high quality materials
- Secure electrical connection through sensor connector M12x1

#### SIMPLE AND QUICK COMMISSIONING

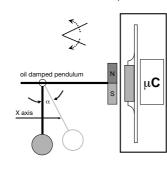
- Standard synchro flange or mounting plate
- No shaft adaptation necessary
- 3-wire connection with sensor connector M12x1 / 8 poles
- Auto-configuration of the network
- Free on-site parameterization

## **Technical data**

#### General

Measured quantity: Measuring principle: Tilt angle

Magnetic, one-dimensional inclination transmitter with hall sensor and oil-damped pendulum system, hermetically sealed, contact free, freely rotatable without stops.



### Measuring input

Measuring range:	-180°179.9°
Inclination angle:	Fixed adjustment -180,0° $\ldots$ +179,9°
Sense of rotation:	Adjustable for rotation clockwise or counter-clockwise

#### Measuring output

Power supply:	9 33 VDC protection against wrong polarity	
Output signal:	14 Bit binary code	
Protocol:	SSI	
Max. clock rate:	1 MHz	
Current consumption:	< 100 mA	

Pendulum damping:

by oil filling

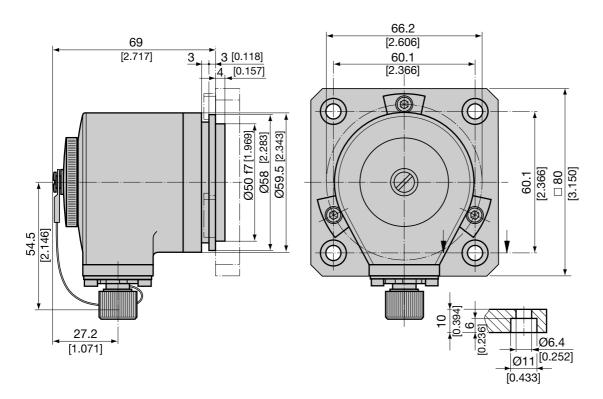
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#### Accuracy

### Regulations

Basic accuracy:	± 0,2° (bei + 25 °C)	Spurious radiation:	EN 61000-6-3
Resolution:	14 bit	Immunity:	EN 61000-6-2
Transient response:	by 25° tils < 1 sec.	Test voltage:	500 Veff., 50 Hz, 1 Min.
Influence of temperature output current		Housing protection:	IP 66 acc. to EN 60 529
(–30°…+70°C): [-22 +158°F]	± 0.1° / 10K (>100°)	Environmental condition	
Installation data		Climatic rating:	Temperature -30° to + 70° C [-22 +158 °F]
Material:	Housing cap: (3.2382)		Relative humidity < 95%
	Aluminium GD-AlSi10Mg coated Housing flange: (3.2315)	Vibration resistance:	≤40 m/s² / 5…100 Hz acc. EN 60068-2-6
	Aluminium AlMgSiF30	Shock resistance:	300 m/s² / 18 ms
Mounting position:	Perpendicular to the measurement		acc. EN 60068-2-27
object		Transportation and	
Electrical connection:	Connector M12x1, 8 poles	storage temperature:	-30° +70 °C [-22 +158 °F]
Weight:	ca. 0,3 kg [9.645 oz]		

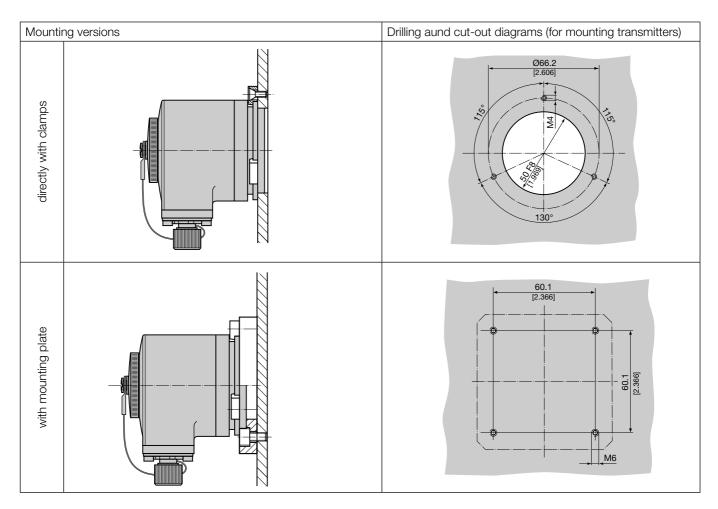
#### **Dimensional drawings**



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## Mounting

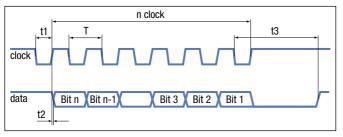
All inclination transmitter can be mounted either directly with 3 clamping brackets to the item being measured or with a mounting plate with 4 cheese head screws M6. Please take care that the installation position of the inclination transmitter is perpendicular to the gravity of the earth. The inclination transmitter are supplied standard with mounting plate but without cheese head screws M6.



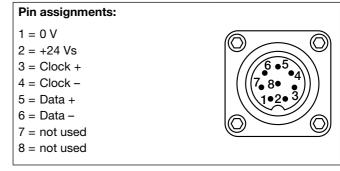
## **Electric connections**

To connect the electrical lines, the inclination transmitter has a sensor connector M12x1 / 8 poles.

Readout of positional values



Impulse times: T = 1 to 10  $\mu$ s / t1 = 0,5 to 5  $\mu$ s I2 = < 0,2  $\mu$ s / t3 = > 12 to 25  $\mu$ s PIN configuration



## Programming

The parameters can be made using the keypad on the device itself. The measuring range is factory set and divided symmetrically. By pressing a button the zero position can be adjusted.

In case of incorrect operation the factory settings can always be restored.

## Ordering information of variants

Description	Article No.
KINAX N702-SSI	157 562

## **Scope of delivery**

- 1 Inclination transmitter KINAX N702-SSI (157 562)
- 1 Mounting plate with 3 clamps (168 379, 168 353)
- 1 Connector M12x1, 8 poles (168 113)
- 1 Operating instructions German, English, French (157 645)

## Accessories

Description	Article No.
Connector M12x1 / 8 poles	168 113
Kit mounting clamp N7xx	168 353
Mounting plate N7xx	168 379





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