CAMILLE BAUER

# KINAX WT 707
# Transmitter for Angular Position

Ruggedized version

CE 0102 Ex II 2 G IECEx GL

## Application

The **KINAX WT 707** (Figs. 1 to 6) converts the angular position of a shaft into a **load-independent** direct current signal, proportional to the angular position. The unit is **contact-free.** The robust housing has made this unit ideal for machines and ship building.

*Fig. 1. KINAX WT 707 with plug-in connector.*

*Fig. 2. KINAX WT 707 with plug-in connector and foot.*

## Features / Benefits

- **Measuring input: Angular position**

| Measured variable | Measuring range limits |
|---|---|
| Angular position | 0...5 to 0...270 ∢° |

- **Measuring output: DC current signal (load-independent, 2-, 3- or 4-wire connection)**
- **Potentiometer for adjusting span / Optimum matching of desired measuring range**
- **Direction of rotation: output signal increases for clockwise or counter-clockwise rotation**
- **Capacitive scanning system / No wear and low annual maintenance**
- **Continuous shaft rotation / No damage when overshooting angle measuring range**
- **Available with type of protection “Intrinsic safety” Ex ia IIC T6 Gb / Can be mounted in hazardous area**
  (see “Table 4: Data on explosion protection”)
- **Ancillary unit in ruggedized housing / Vibration and shock-resistant, for applications on large machines and in ship building**
- **Marine version also available as per Lloyd’s Register of Shipping**

*Fig. 3. KINAX WT 707 with screw terminals, cable glands and foot.*

*Fig. 4. KINAX WT 707 with additional gear, plug-in connector and foot.*

*Fig. 5. KINAX WT 707 with additional gear, plug-in connector and mounting flange.*

*Fig. 6. KINAX WT 707 with additional gear, screw terminals, cable glands and foot.*

# KINAX WT 707
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## Technical data

### Measuring input

Measured quantity: Angle of rotation $\alpha$ ∢°

Measuring principle: Capacitive method
Differential capacitor with contact-free, non-wearing positional pick-up. Drive shaft fully rotatable without mechanical stops

Measuring ranges: 0…≥ 5 to 0… ≤ 270 ∢°
(without gear)

Preferred ranges
0…10, 0…30, 0…60, 0…90, 0…180 or 0…270 ∢°

0…≥ 10 ∢° to 0…1600 turns
(with additional gear)

Frictional torque: Approx. 25 Ncm

Sense of rotation: Clockwise or counterclockwise (seen from the shaft side).

The same transmitter can be used for both directions of rotation. A switch has to be changed, however, to reverse the direction on transmitters with ranges 0…> 150 to 0…≤ 270 ∢°, see "Settings".

See Feature 13 and 14 in "Table 3: Specifications and ordering informations" for direction of rotation on transmitters with additional gear.

### Measuring output

Output variable $I_A$: Load-independent DC current, proportional to the input angle

Zero point correction: Approx. ± 5%

Span adjustment: Approx. + 5 / – 30%
see "Feature 9"

Current limitation: $I_A$ max. 40 mA

Standard ranges: 0…1 mA,
3- or 4-wire connection

0…5 mA,
3- or 4-wire connection

0…10 mA,
3- or 4-wire connection

4…20 mA, 2-wire connection
or 0…20 mA,
3- or 4-wire connection, adjustable with potentiometer

4…20 mA,
3- or 4-wire connection

0…20 mA, 4-wire connection

Non-standard ranges: 0…> 1.00 to 0…< 20 mA
3- or 4-wire connection

External resistance (load): $R_{ext}$ max. [kΩ] = $\frac{12\ V}{I_A\ [mA]}$

(for instruments with **DC/AC** power supply by AC/DC power pack, **with** electric isolation)

$R_{ext}$ max. [kΩ] = $\frac{H\ [V] - 12\ V}{I_A\ [mA]}$

(for instruments with **DC** power supply, **without** electric isolation)

$I_A$ = Output signal end value

Residual ripple in output current: < 0.3% p.p.

Response time: < 5 ms

### Accuracy

Reference value: Measuring range

Basic accuracy: Limit of error ≤ 0.5% for ranges 0…≤ 150 ∢°

Limit of error ≤ 1.5% for ranges from 0…> 150 to 0…270 ∢°

Reproducibility: < 0.2%

**Reference conditions:**

Ambient temperature: 23 °C ± 2 K

Power supply: H = 18 V

External resistance: $R_{ext}$ = 0 Ω

**Influence effects (maxima):**
(included in basic error)

Linearity error: ± 0.4% for ranges 0…≤ 150 ∢°
± 1.4% for ranges from 0…> 150 to 0…270 ∢°

Dependence on external resistance Δ $R_{ext}$ max.: ± 0.1%

Power supply influence: ± 0.1%

**Additional error (maxima):**

Temperature influence (–25…+ 70°C): ± 0.2% / 10 K

Bearing play influence: ± 0,.1%

### Power supply H

DC **and** AC voltage: Nominal voltages and tolerances see "Table 1"

Table 1:

| Nominal voltages $U_N$ | Tolerances |
|---|---|
| 24 … 60 V DC / AC | DC – 15 … + 33%<br>AC ± 15% |
| 85 … 230 V DC / AC | |

(only possible with standard version, non-Ex **with** electric isolation, with AC/DC power pack (DC and 45…400 Hz)

| | |
|---|---|
| Power consumption: | < 0.9 W resp. < 1.8 VA |
| Power supply effect on accuracy: | ≤ 0.1% within the admissible power supply tolerance |
| DC voltage **only**[1]: | 12…33 V<br>(possible with standard version, non-Ex, **without** electric isolation)<br>12…**30 V**<br>(necessary with **Ex** version, type of protection "Intrinsic safety"<br>Ex ia IIC T6 Gb, **without** electric isolation) |
| Max. residual ripple: | 10% p.p. |
| Max. current consumption: | Approx. 5 mA + $I_A$ |
| Power supply effect on accuracy: | < 0.2% within the admissible power supply tolerance |

### Mechanical withstand

| | |
|---|---|
| Permissible vibration: (without additional gear) | 0…200 Hz,<br>10 g continuous, 15 g for 2 h<br>200…500 Hz,<br>5 g continuous, 10 g for 2 h |
| Shock: | 3 ×50 g every 10 impulses in all 3 axes |
| Permissible static load on the shaft: | Max. 1000 N (radial)<br>Max. 500 N (axial)<br>If subjected to vibration the shaft load should be as low as possible to ensure optimum life of the bearing |
| Mounting position: | Any |

### Housing data

| | |
|---|---|
| Material of housing: (main part) | Steel<br>Finish QPQ-behandelt (nitro-carbonated) |
| Material of back: | **Plastic** (polyester), when **plug-in cable** specified<br>or<br>**metal** (aluminium), when cable access via **screw terminals** and **cable glands** |
| Material of plug-in connector: | Plastic |
| Material of cable glands: | Metal |

The **plug-in conncector** consists of a socket mounted on the transmitter and plug on the end of the connecting cable (screw gland) with 7 screw terminals (wire gauges up to 1 mm²). The socket can be mounted so that the cable is routed to either the rear (see Fig. 7) or the front (see Fig. 8).

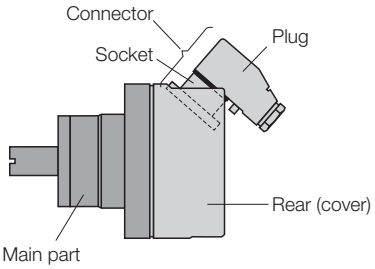


*Fig. 7. Cable routed to rear.*

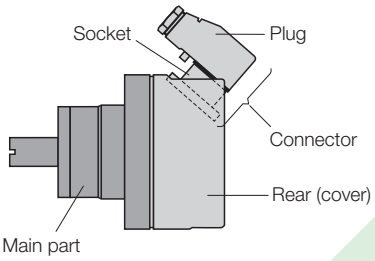


*Fig. 8. Cable routed to front.*

On units with **screw terminals** and **cable glands PG 11** (see Fig. 9) there are 4 screw terminals and a grounding terminal in the rear cover. The screw terminals accept gauges up to 1,5 mm² and are accessible after removing the cover.

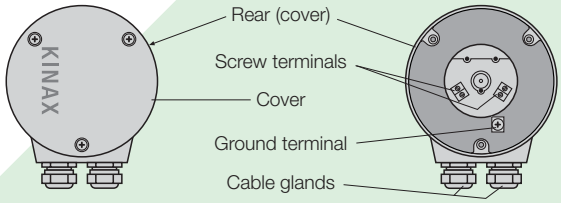


*Fig. 9. KINAX WT 707 with screw terminals and cable glands.*

| | |
|---|---|
| Mounting: | Directly<br>(instrument without foot, without flange)<br>Mounting with foot<br>Mounting with flange |
| Weight: | See Table 2 |

Table 2:

| Weight | Description of parts |
|---|---|
| Approx. 2.9 kg | KINAX WT 707 **without** additional gear (also without foot or without flange) |
| Approx. 3.9 kg | KINAX WT 707 **with** additional gear (also without foot or without flange) |
| 0.5 kg | Foot (on its own) |
| 0.5 kg | Flange (on its own) |

*[1] Polarity reversal protection. The voltage must not fall below 12 V.*

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### Regulation

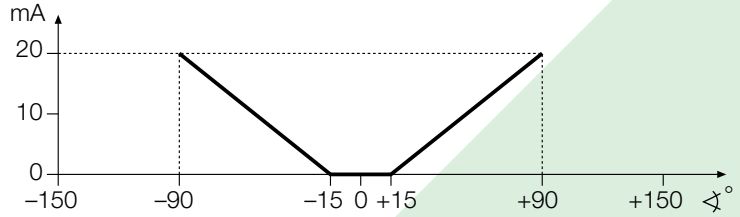
| | |
|---|---|
| Electromagnetic compatibility: | The standards DIN EN 50 081-2 and DIN EN 50 082-2 are observed |
| Intrinsic safety: | ATEX: EN 60 079-11: 2012<br>IECEx: IEC 60 079-11: 2011-06 |
| Test voltage: | 2.2 kVrms, 50 Hz, 1 min.<br>between…<br>… power supply and housing<br>… power supply and measuring output<br>(with DC/AC power supply, with electric isolation)<br>500 Vrms, 50 Hz, 1 min.<br>all electrical connections to housing<br>(with DC power supply, without electric isolation) |
| Housing protection: | IP 66 acc. to EN 60 529 |
| Impulse voltage withstand: | 1 kV, 1.2/50 µs, 0.5 Ws<br>IEC 255-4, Cl. II |
| Permissible common-mode voltage: | 100 V, 50 Hz |

### Environmental conditions

| | |
|---|---|
| Climatic rating: | Standard version<br>Temperature –25 to + 70 °C<br>Annual mean relative humidity ≤ 90%<br>or<br>version with improved climatic rating<br>Temperature – 40 to + 70 °C<br>Annual mean relative humidity ≤ 95%<br>Ex-version<br>Temperature<br>– 40 to + 55 °C at T6<br>resp. – 40 to + 70 °C at T5<br>resp. – 40 to + 75 °C at T4 |
| Transportation and storage temperature: | –40 to 80 °C |

## Table 3: Specification and ordering information

| Description | *Blocking code | no-go with blocking code | Article No./ Feature |
|---|---|---|---|
| **KINAX WT 707 Order code 707 - xxxx xxxx xxxx xx** | | | 707 – |
| **Features, Selection** | | | |
| **1. Version of the transmitter** | | | |
| Standard, measuring output non intrinsically safe | A | | 1 |
| Ex ia IIC T6 Gb, CENELEC/ATEX, measuring output intrinsically safe | B | | 2 |
| Sea water version | N | O | 3 |
| Sea water version with gear | O | | 4 |
| Ex ia IIC T6, FTZU (Czech republic), measuring output intrinsically safe | B | | 6 |
| Ex ia IIC T6 Gb, CENELEC/ATEX, sea water version | BN | O | 7 |
| Ex ia IIC T6 Gb, CENELEC/ATEX, sea water version with gear | BO | | 8 |
| Version „Ex-i“ for: _____ | B | | 9 |
| Version IECEx Ex ia IIC T6 Gb | B | | A |
| Sea water version IECEx Ex ia IIC T6 Gb | BN | | B |
| Sea water version with gear IECEx Ex ia IIC T6 Gb | BO | | C |

| Description | *Blocking code | no-go with blocking code | Article No./ Feature |
|---|---|---|---|
| **KINAX WT 707 Order code 707 - xxxx xxxx xxxx xx** | | | 707 – |
| **Features, Selection** | | | |
| **2. Sens of rotation** | | | |
| Clockwise | D | | 1 |
| Counterclockwise | D | | 2 |
| V characteristic (not possible for instruments with gear | E | | 3 |
| Both senses of rotation, marked and calibrated (for measuring ranges ≤ 90° only) | M | | 4 |
| Lines 1 and 2: Instruments with ranges 0 … ≥ 5 to 0 … ≤ 150 ∢° are usable in both senses of rotation. Instruments with ranges 0 … > 150 to 0 … ≤ 270 ∢° can be changed to the other direction (Beginning and end of the measuring range must be readjusted). Sense of rotation for transmitters with additional gear see “Feature 13 and 14”. | | | 3 |
| **3. Measuring range (measuring input)** ⊕ | | | |
| 0 … 10 ∢° | | E | 1 |
| 0 … 30 ∢° | | E | 2 |
| 0 … 60 ∢° | | E | 3 |
| 0 … 90 ∢° | | E | 4 |
| 0 … 180 ∢° | | EM | 5 |
| 0 … 270 ∢° | | EM | 6 |
| Non-standard (0 … ≥ 5 to 0 … < 270) [∢°] With both senses of rotation calibrated, non-standard range: 0 … ≥ 5 till 0 … < 90° | | E | 9 |
| V characteristic [± ∢°] | | DM | A |
| Line A: Specify start $M_A$ and end $M_E$ of measuring range! Observe the limits for ($M_A$ [± ∢°] ≥ 10 and $M_E$ [± ∢°] ≤ 150) and give both angles separated by an oblique stroke, e.g. [± ∢°] 15 / 90!   Example of a “V” characteristic for the measuring range [± ∢°] 15 / 90 and an output range of 0 … 20 mA | | | |

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| Description | *Blocking code | no-go with blocking code | Article No./ Feature |
|---|---|---|---|
| **KINAX WT 707** **Order code 707 - xxxx xxxx xxxx xx** | | | 707 – |
| **Features, Selection** | | | |
| **4. Output signal (measuring output)** ⊖► | | | |
| 0 … 1 mA, 3- or 4-wire connection | | | A |
| 0 … 5 mA, 3- or 4-wire connection | | | B |
| 0 … 10 mA, 3- or 4-wire connection | | | C |
| 4 … 20 mA, 2-wire connection or<br>0 … 20 mA, 3- or 4-wire connection (adjustable with potentiometer) | H | | D |
| 4 … 20 mA, 3- or 4-wire connection | | | E |
| 0 … 20 mA, 4-wire connection (only possible with DC/AC power supply (AC/DC power pack) | L | | F |
| Non-standard, 3- or 4-wire connection [mA] | | | Z |
| 0 … > 1.00 to 0 … < 20 | | | |
| Lines A to Z: $R_{ext}$ max. see Section “Technical data”,<br>4-wire connection, **with** electric isolation only possible with DC/AC power supply (AC/DC power pack).<br>2-, 3- or 4-wire connection, **without** electric isolation only possible with DC power supply. | | | |
| **5. Power supply** ►◯ | | | |
| 24 … 60 V DC/AC, **with** electric isolation | F | BH | 1 |
| 85 … 230 V DC/AC, **with** electric isolation | F | BH | 2 |
| 12 … 33 V DC, **without** electric isolation | K | BL | A |
| 12 … **30** V DC **(Ex), without** electric isolation | K | AL | B |
| Lines 1 and 2: Not possible for DC/AC power supply at output signal “Feature 4, line D”! | | | |
| **6. Mounting mode** | | | |
| Without foot, without flange | | | 0 |
| With foot (mounted) | | | 1 |
| With flange (mounted) | | | 2 |
| **7. Material of transmitter rear cover / Routing of connecting cable** | | | |
| Plastic / connector **less** cable plug, socket mounted for cable routed to the **rear** (see Fig. 7, but less plug) | | | 1 |
| Plastic / connector **less** cable plug, socket mounted for cable routed to the **front** (see Fig. 8, but less plug) | | | 2 |
| Plastic / connector **with** cable plug, cable routed to the **rear** (see Fig. 7) | | | 3 |
| Plastic / connector **with** cable plug, cable routed to the **front** (see Fig. 8) | | | 4 |
| Metal / screw terminals and PG 11 (see Fig. 9)<br>Recommended for DC/AC power supply, 4-wire connection **with** electric isolation | | | 5 |

| Description | *Blocking code | no-go with blocking code | Article No./ Feature |
|---|---|---|---|
| **KINAX WT 707 Order code 707 - xxxx xxxx xxxx xx** | | | 707 – |
| **Features, Selection** | | | |
| **8. Special features** | | | |
| Without special features (order code compete). | Y | | 0 |
| With special features: The features to be omitted must be replaced by an oblique stroke (/) in the order code until reaching the required features | | | 1 |
| **9. Settings (span adjustment)** | | | |
| Extended setting range + 5% / – 60%<br>Restriction: for angle ≥ 60°, supplementary error 0.2%<br>also possible on versions with additional gear | | Y | A |
| **10. Improved climatic rating** | | | |
| Temperature – 40 to + 70 °C, annual mean relative humidity **≤ 95%** | | BY | H |
| With **Ex** version<br>Temperature **– 40** to **+ 55** °C at T6 resp. – 40 to + 70 °C at T5,<br>resp. – 40 to + 75 °C at T4, annual mean relative humidity **≤ 95%** | | AY | J |
| **11. Marine version** | | | |
| Version GL (“Germanischer Lloyd”) | | Y | L |
| **12. Increased vibration resistance** | | | |
| Version with DC power supply,<br>**without** electric isolation | G | FY | M |
| Version **with** DC/AC power supply (AC/DC power pack),<br>**with** electric isolation | G | KY | N |
| 0 … 200 Hz, **25 g** continuous, **30 g** for 2 h<br>200 … 500 Hz, **15 g** continuous<br>Not possible with additional gear! | | | |
| **13. Additional gear 2 : 1 to 144 : 1**<br>Choose the full scale value of KINAX WT 707 (without gear) ME ≤ 150 ∢°.<br>Limit of error: ≤ 0,5% for ME ≤ 150 ∢° and<br>≤ 1,5% for ME ≥ 150 ∢°.<br>Determine the required reduction ratio to the following formula:<br>$i = \frac{n \cdot 360\ [\sphericalangle°]}{ME\ [\sphericalangle°]}$<br>i = Reduction ratio<br>n = No. of turns (end of range of object being measured)<br>ME = Full scale value of KINAX WT 707 (without gear).<br>If “ME” is higher but max. ≤ 150 ∢°) and “i” is as small as possible the the hysteresis error will be smaller.<br>Example of calculation of the error of the hysteresis; known are:<br>n = 4.1 rotations, i = 10, ME = 147.6 ∢° and j = approx. 1.0 ∢°<br>j = gear backlash<br>$F\ \% = \frac{100\% \cdot j \cdot i}{n \cdot 360°} = \frac{100 \cdot 1.0 \cdot 10}{4.1 \cdot 360}$ = approx. 0.68% error of the hysteresis<br>Gear backlash approx. 1.0 ∢° for 2 ≤ i ≤ 12.5<br>approx. 1.5 ∢° for 12.5 < i ≤ 60<br>approx. 2.0 ∢° for 60 < i ≤ 1600 | | | |

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| Description | *Blocking code | no-go with blocking code | Article No./ Feature |
|---|---|---|---|
| **KINAX WT 707 Order code 707 - xxxx xxxx xxxx xx** | | | 707 – |
| **Features, Selection** | | | |
| Transformation 2 : 1 | J | EGY | 1 |
| Transformation 4 : 1 | J | EGY | 2 |
| Transformation 5 : 1 | J | EGY | 3 |
| Transformation 6 : 1 | J | EGY | 4 |
| Transformation 8 : 1 | J | EGY | 5 |
| Transformation 10 : 1 | J | EGY | A |
| Transformation 12 : 1 | J | EGY | B |
| Transformation 12.5 : 1 | J | EGY | C |
| Transformation 15 : 1 | J | EGY | D |
| Transformation 16 : 1 | J | EGY | E |
| Transformation 20 : 1 | J | EGY | F |
| Transformation 22 : 1 | J | EGY | G |
| Transformation 24 : 1 | J | EGY | H |
| Transformation 25 : 1 | J | EGY | J |
| Transformation 30 : 1 | J | EGY | K |
| Transformation 32 : 1 | J | EGY | L |
| Transformation 36 : 1 | J | EGY | M |
| Transformation 40 : 1 | J | EGY | N |
| Transformation 50 : 1 | J | EGY | O |
| Transformation 60 : 1 | J | EGY | P |
| Transformation 64 : 1 | J | EGY | Q |
| Transformation 72 : 1 | J | EGY | R |
| Transformation 75 : 1 | J | EGY | S |
| Transformation 80 : 1 | J | EGY | T |
| Transformation 100 : 1 | J | EGY | U |
| Transformation 120 : 1 | J | EGY | V |
| Transformation 144 : 1 | J | EGY | W |
| **14. Additional gear 150 : 1 to 1600 : 1** | | | |
| Additional gear built-in: | | | |
| Transformation 150 : 1 | | EGJY | 1 |
| Transformation 160 : 1 | | EGJY | 2 |
| Transformation 180 : 1 | | EGJY | 3 |
| Transformation 200 : 1 | | EGJY | 4 |
| Transformation 240 : 1 | | EGJY | A |
| Transformation 250 : 1 | | EGJY | B |
| Transformation 300 : 1 | | EGJY | C |
| Transformation 330 : 1 | | EGJY | D |
| Transformation 360 : 1 | | EGJY | E |
| Transformation 375 : 1 | | EGJY | F |
| Transformation 400 : 1 | | EGJY | G |
| Transformation 450 : 1 | | EGJY | H |
| Transformation 480 : 1 | | EGJY | J |
| Transformation 500 : 1 | | EGJY | K |

| Description | *Blocking code | no-go with blocking code | Article No./ Feature |
|---|---|---|---|
| **KINAX WT 707 Order code 707 - xxxx xxxx xxxx xx** | | | 707 – |
| **Features, Selection** | | | |
| Transformation 550 : 1 | | EGJY | L |
| Transformation 600 : 1 | | EGJY | M |
| Transformation 660 : 1 | | EGJY | N |
| Transformation 720 : 1 | | EGJY | O |
| Transformation 750 : 1 | | EGJY | P |
| Transformation 800 : 1 | | EGJY | Q |
| Transformation 880 : 1 | | EGJY | R |
| Transformation 900 : 1 | | EGJY | S |
| Transformation 1000 : 1 | | EGJY | T |
| Transformation 1024 : 1 | | EGJY | U |
| Transformation 1200 : 1 | | EGJY | V |
| Transformation 1600 : 1 | | EGJY | W |

**Lines with letter(s) under "not possible" cannot be combined with preceding lines having the same letter under "SCODE".*

## Table 4: Data on explosion protection

| Order Code | Type of protection "Intrinsic safety" Marking | | Certificates | Mounting location of the instrument |
|---|---|---|---|---|
| | Instrument | Measuring output | | |
| 707 – 2 … | Ex ia IIC T6 Gb | $U_i$ = 30 V<br>$I_i$ = 160 mA<br>$P_i$ = 1 W<br>$C_i$ = 10 nF<br>$L_i$ = 0 | Type Examination Certificate ZELM 10 ATEX 0427 X | **Within** the hazardous area |
| 707 – 6 … | Ex ia IIC T6 | | Czech republic FTZU 98 Ex 0280 | |
| 707 – A …<br>707 – B …<br>707 – C … | Ex ia IIC T6 Gb | | Certificate of Conformity IECEx ZLM 12.0008X | |

# KINAX WT 707
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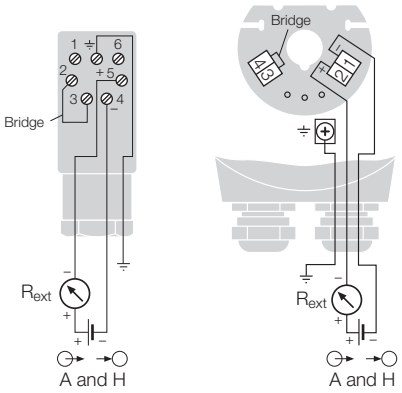
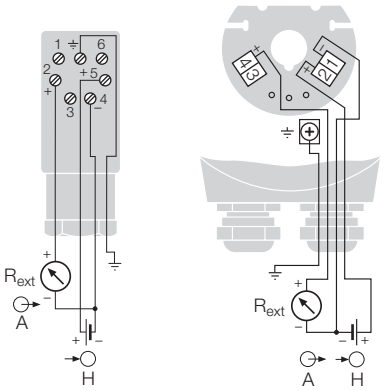
## Electrical connections

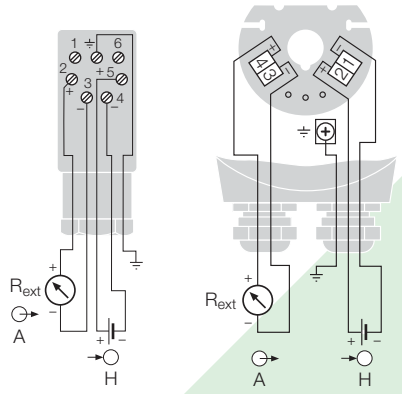
2-, 3- or 4-wire connection **without** electric isolation




2-wire connection (4 … 20 mA)



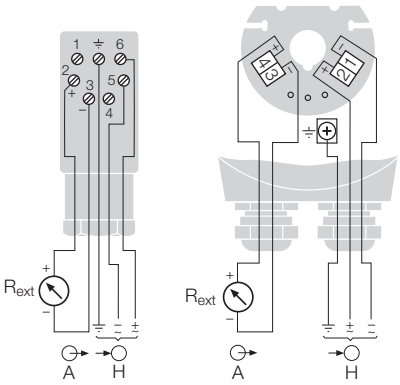

3-wire connection (different mA signals)




4-wire connection (different mA signals)

A = Measuring output …
… as 2-wire connection (4 … 20 mA, signal in output/powering circuit)
… as 3- or 4-wire connection (different mA signals)
H = **DC** power supply H = 12 … 33 V
resp. H = 12 … **30** V with **Ex** versions
$R_{ext}$ = External resistance

4-wire connection **with** electric isolation




4-wire connection (different mA signals)

A = Measuring output
H = **AC/DC** power supply
$R_{ext}$ = External resistance

## Settings

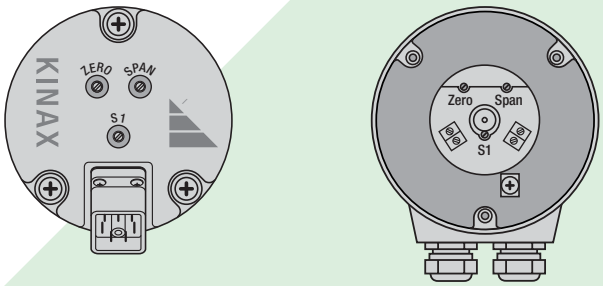



*Fig. 10. Position of settings.*
*Left: Transmitter with plug-in connector.*
*Right: Transmitter with screw terminals and cable glands.*
*ZERO = Potentiometer for zero point*
*SPAN = Potentiometer for measuring range end value*
*S1 = Switch for reversing direction of rotation for ∢° >150°.*

Transmitters with the ordering code 707 – …**D** (see "Table 3: Specification and ordering information") are designed for either a 2-wire connection with an output range of 4…20 mA or a 3- or 4-wire connection with an output range of 0…20 mA.

If, however, a transmitter be changed from one to the other (see "Electrical connections"), the beginning and end of the measuring range, ZERO and SPAN must be readjusted.

A switch is provided on angular transmitters with a measuring range > 150 ∢° for reversing the direction of rotation. It is marked S1.

## Standard accessories

1 Operating instructions in three languages: German, French, English
1 Ex approval, for instruments in Ex version only

## Dimensional drawings

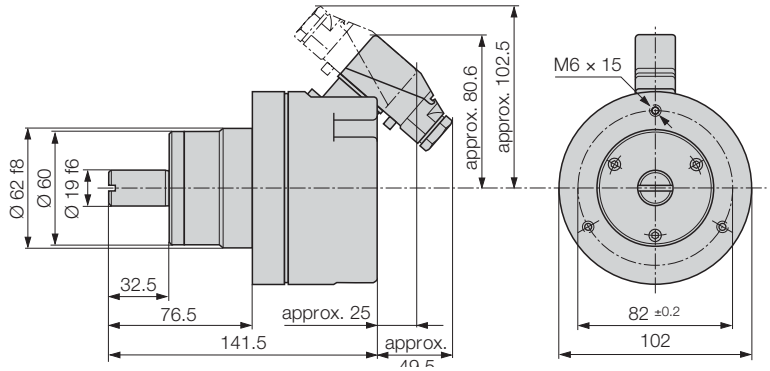



*Fig. 11. KINAX WT 707 with plug-in connector.*

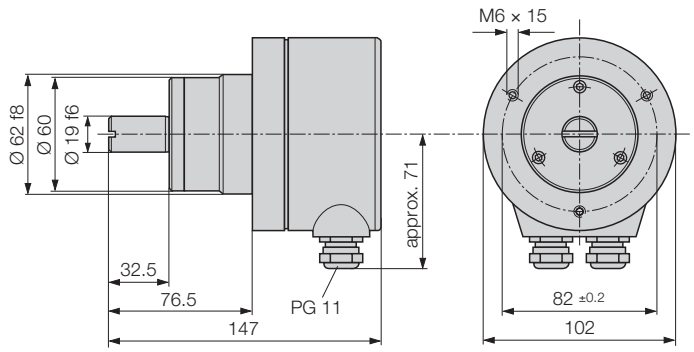



*Fig. 12. KINAX WT 707 with screw terminals and cable glands.*

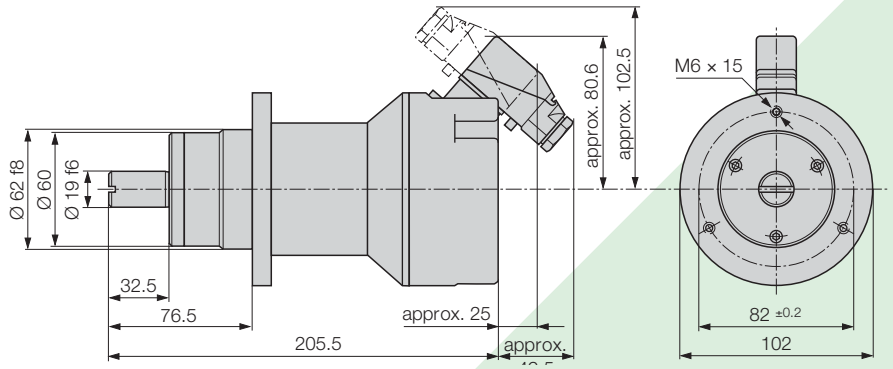



*Fig. 13. KINAX WT 707 with additional gear and plug-in connector.*

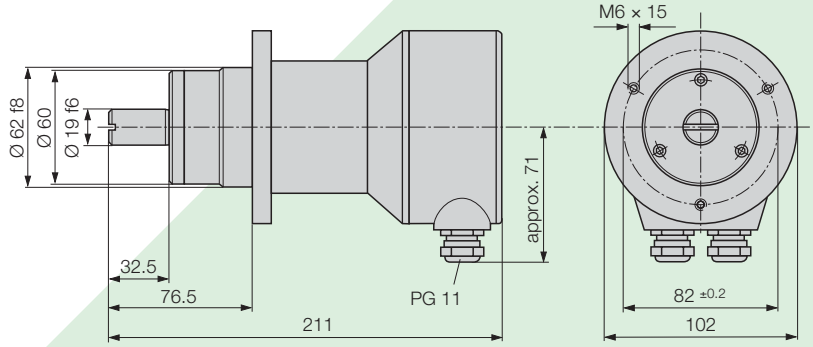



*Fig. 14. KINAX WT 707 with additional gear, screw terminals and cable glands.*

# KINAX WT 707
# Transmitter for Angular Position

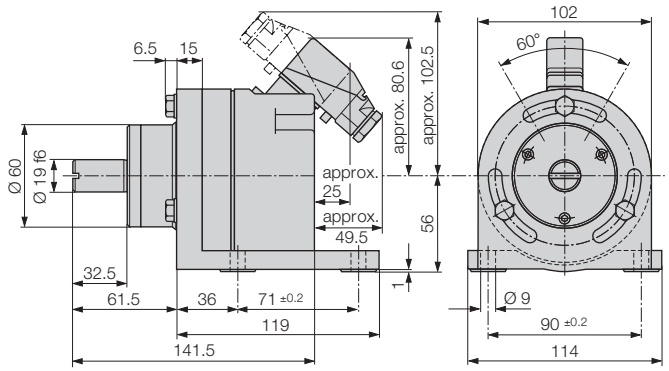



*Fig. 15. KINAX WT 707 with plug-in connector and foot.*

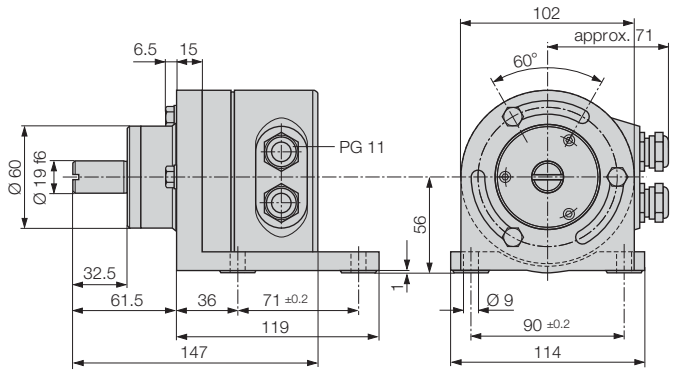



*Fig. 16. KINAX WT 707 with screw terminals, cable glands and foot .*

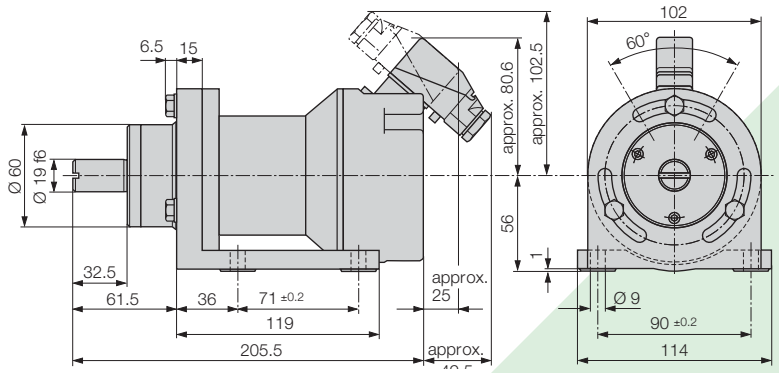



*Fig. 17. KINAX WT 707 with additional gear, plug-in connector and foot.*

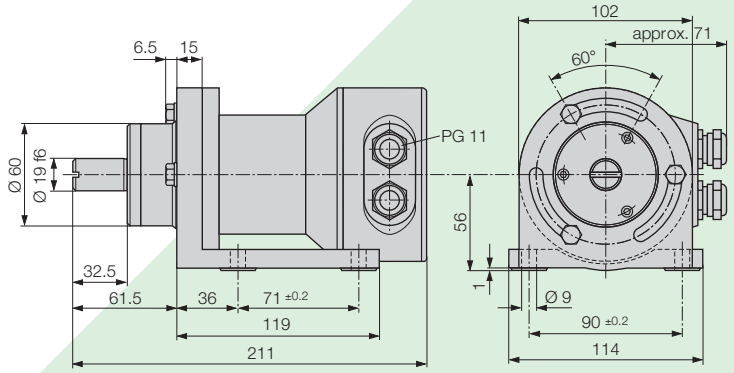



*Fig. 18. KINAX WT 707 with additional gear, screw terminals, cable glands and foot.*

# KINAX WT 707
# Transmitter for Angular Position

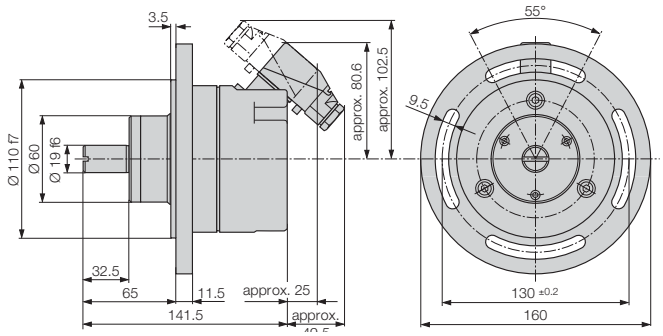



*Fig. 19. KINAX WT 707 with plug-in connector and flange.*

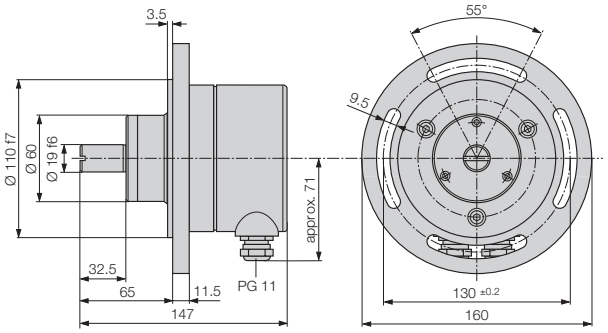



*Fig. 20. KINAX WT 707 with screw terminals, cable glands and flange.*

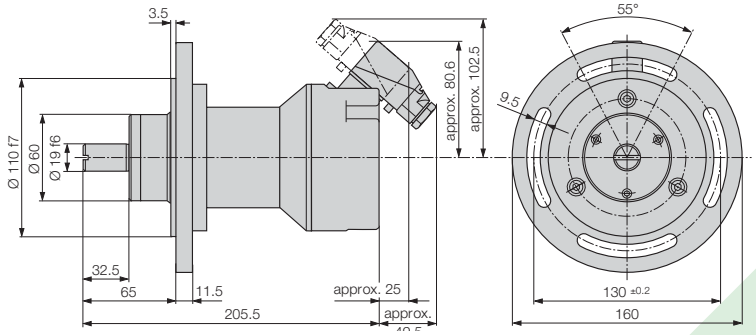



*Fig. 21. KINAX WT 707 with additional gear, plug-in connector and flange.*

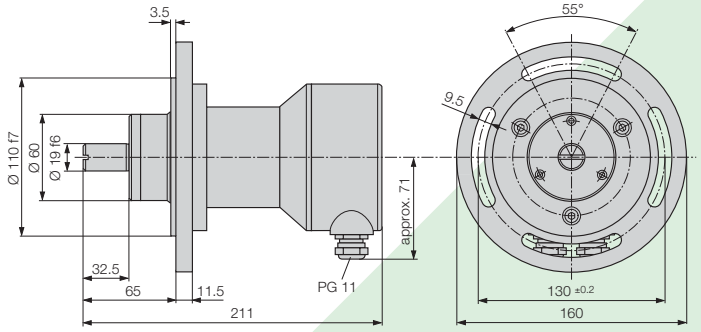



*Fig. 22. KINAX WT 707 with additional gear, screw terminals, cable glands and flange.*

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