# Preset counters, electronic

**LCD preset counters** | **1 or 2 presets – pulse, time – 5 kHz (AC+DC)** | **Codix 907 / 908**



**The pulse and time preset counters Codix 907 and 908 offer all important counter functions with an unbeatable price/performance ratio.**

**The counters offer easy, user-friendly installation thanks to their minimal installation depth and plug-in screw terminals; the 2-line LCD display is available with optional backlighting, making it even easier to read with just a quick glance.**

RoHS

3 Jahre / years Gewährleistung / warranty
Made in Germany by Kübler




Supply voltage | Temperature range | DIN front bezel | Menu-driven programming | High protection level | Count frequency | Plug-in screw terminal | Presets 907: 1 / 908: 2 | Multifunctional




LCD display | Multicolor display

## Powerful

- For pulse, time and position.
- Adding or subtracting.
- Automatic reset when preset is reached, or by key-press or electrically.
- Codix 907: 1 preset / Codix 908: 2 presets.
- 2 x 6-digit display and preset annunciators from -999999 to +999999.
- Display with or without backlighting, 2-color.

## Simple

- Plug-in screw terminal.
- Simple menu-driven programming.
- Decade keypad, for each digit one key.
- DC or AC powered.
- Minimum installation depth.
- High protection level (IP65) with integrated front bezel gasket.
- With preset annunciators.

## Order code

6.90 **X**ⓐ . 0 1 **0**ⓑ **X**ⓒ . **X**ⓓ **A**ⓔ 0

ⓐ *Number of presets*
7 = 1 preset
8 = 2 presets

ⓑ *Outputs*
0 = relays

ⓒ *LCD version*
0 = no backlighting
1 = green backlighting
4 = 2-color, negative red / green backlighting

ⓓ *Supply voltage*
0 = 230 V AC
1 = 115 V AC
3 = 11 ... 30 V DC

ⓔ *Input trigger level*
A = 4 ... 30 V DC level

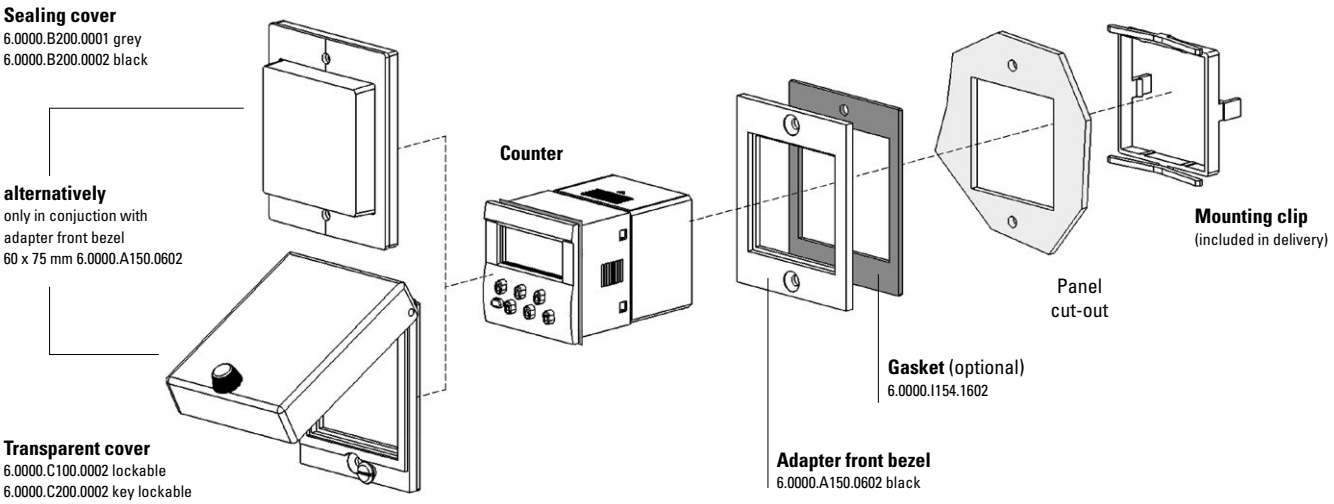
*Delivery specification*
- Preset counter
- Mounting clip
- 8 pin screw terminal
- 7 pin screw terminal
- Operating instructions

***Stock types***
**6.907.0100.3A0**
**6.908.0101.3A0**

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### Accessories / Mounting examples




| | | Type / size | Description | | Order no. | suitable gasket |
|---|---|---|---|---|---|---|
| **Adapter front bezel** |  | **55 x 55 mm [2.17 x 2.17]** | for cut-out 50 x 50 mm [1.97 x 1.97"] or ø 50,5 mm [1.99"] to cut-out 45 x 45 mm [1.77 x 1.77"] | grey<br>black | **6.0000.A100.1601**<br>**6.0000.A100.1602** | **6.0000.I104.1402** |
| |  | **55 x 55 mm [2.17 x 2.17]** | for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"] | black | **6.0000.A100.0602** | **6.0000.I133.0802** |
| |  | **60 x 75 mm [2.36 x 2.95]** | for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"] | black | **6.0000.A150.0602** | **6.0000.I154.1602** |
| |  | **72 x 72 mm [2.83 x 2.83]** | for cut-out 68 x 68 mm [2.68 x 2.68"] to cut-out 45 x 45 mm [1.77 x 1.77"] | grey<br>black<br>Mating clip | **6.0000.A160.1901**<br>**6.0000.A160.1902**<br>**6.0000.S100.0002** | **6.0000.I164.1402** |
| |  | **ø 72 mm [2.83]** | for cut-out ø 60 mm [2.36"] to cut-out 45 x 45 mm [1.77 x 1.77"] | black | **6.0000.A220.2002** | – |
| **Sealing cover IP65** |  | **K2** | only in conjuction with adapter front bezel 60 x 75 mm 6.0000.A150.0602 | transparent / grey<br>transparent / black | **6.0000.B200.0001**<br>**6.0000.B200.0002** | – |
| **Transparent cover IP65** |  | **2 Dv** (mounted on bezel) | cover lockable, for cut-out 50 x 50 [1.97 x 1.97], only in conjuction with adapter front bezel 60 x 75 mm 6.0000.A150.0602 | transparent / black | **6.0000.C100.0002** | – |
| |  | **2 Dvs** (mounted on bezel) | cover key lockable, for cut-out 50 x 50 [1.97 x 1.97], only in conjuction with adapter front bezel 60 x 75 mm 6.0000.A150.0602 | transparent / black | **6.0000.C200.0002** | – |
| **Mounting frame** |  | **cut-out 50 x 50 mm [2.36 x 2.36]** | for snap-on mounting on 35 mm [1.38"] top-hat DIN rail | chromated | **6.0000.F200.0006** | |
| **Screw terminal** (replacement part) | | | 1 ... 8, pitch 3.81<br>9 ... 15, pitch 5.08 | 8-pin<br>7-pin | 6.0000.S140.0009<br>6.0000.S150.0009 | |

incl. in delivery


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### Technical data

#### General technical data

| | | |
|---|---|---|
| **Display** | | 2 line 2 x 6 digits LCD display<br>upper line 9 mm [0.35"],<br>lower line 7 mm [0.28"],<br>special sign 2 mm high [0.079"] |
| | standard | positive green with<br>optional backlighting |
| | 2-color | upper line:<br>negative, red backlighting<br>lower line:<br>negative, green backlighting |
| **Operating temperature** | | -10 °C ... +50 °C [+14 °F ... +122 °F]<br>(non-condensing) |
| **Storage temperature** | | -25 °C ... +75 °C [-13 °F ... +167 °F] |
| **Relative humidity**<br>at +40 °C [+104 °F] | | 93 % (non-condensing) |
| **Altitude** | | up to 2000 m [6562'] |

#### Mechanical characteristics

| | | |
|---|---|---|
| **Protection** | | IP65 (front side) |
| **Weight** | AC version | approx. 250 g [8.82 oz] |
| | DC version | approx. 150 g [5.29 oz] |

#### Electrical characteristics

| | | |
|---|---|---|
| **Sensor supply voltage** | AC | 115/230 V, ±10 %, 50/60 Hz,<br>max. 6.5 VA |
| | DC | 11 ... 30 V, max. 4 W |
| **External fuse protection** | 230 V AC | T 0.1 A |
| | 115 V AC | T 0.125 A |
| | 11 ... 30 V DC | T 0.2 A |
| **Data retention** | | > 10 years, EEPROM |
| **Input modes** | pulse counter | cnt.dir, up.dn, quad |
| | timer | FrErun, InpA.InpB., InpB.InpB. |
| **Sensor supply voltage** | AC supply | 24 V DC -40/+15 %,<br>50 mA at 230 V AC,<br>40 mA at 115 V AC |
| | DC supply | max. 50 mA<br>external supply voltage is<br>connected through |
| **Device safety** | designed to | EN 61010 part 1 |
| | protection class | 2 |
| | application area | pollution level 2 |

#### Inputs

| | | | |
|---|---|---|---|
| **Count inputs** | | | A and B (timer: A = Gate) |
| **Polarity of the inputs** | | | programmable for all inputs<br>in common, NPN/PNP |
| **Input resistance** | | | 10 kΩ |
| **Count frequency** | | | max. 5 kHz<br>(details see manual) can be<br>damped to 30 Hz<br>(mechanical contacts) |
| **Control / Reset input** | | | Lock, Reset |
| **Min pulse duration of signal and control inputs** | | | statical /1 ms |
| **Switching levels with AC/DC supply** | 4 ... 30 V DC: | low | 0 ... 2 V DC |
| | | high | 3.5 ... 30 V DC |
| **Pulse shape** | | | variable,<br>Schmitt-Trigger<br>characteristics |

#### Outputs

| | | |
|---|---|---|
| **Switching voltage** | | max. 250 V AC / 110 V DC |
| **Switching current** | | max. 3 A AC/DC<br>min. 30 mA DC |
| **Switching capacity** | | max. 750 VA / 90 W |
| **Output 1** | | |
| Mech. service life (switching cycles) | | $2 \times 10^7$ |
| N° of switching cycles at 3 A / 250 V AC | | $1 \times 10^5$ |
| N° of switching cycles at 3 A / 30 V DC | | $1 \times 10^5$ |
| Relay with closing contact, progr. normal closed or normal open. | | |
| **Output 2** | | |
| Mech. service life (switching cycles) | | $20 \times 10^6$ |
| N° of switching cycles at 3 A / 250 V AC | | $5 \times 10^4$ |
| N° of switching cycles at 3 A/30 V DC | | $5 \times 10^4$ |
| Relay with changeover contact | | |
| **Reaction time of the outputs** | pulse counter | < 15 ms |
| | timer | < 10 ms |

#### Approvals

**CE compliant** in accordance with

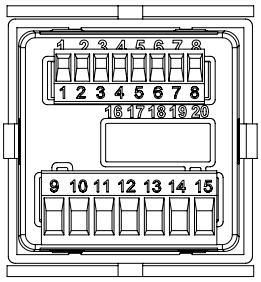
| | |
|---|---|
| EMC Directive | 2014/30/EU |
| RoHS Directive | 2011/65/EU |
| Low Voltage Directive | 2014/35/EU |

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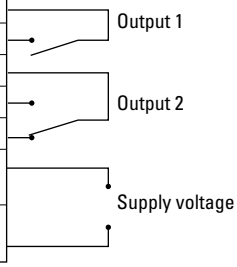
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## Terminal assignment

| Pin | Signal and control inputs |
|---|---|
| 1 | Sennsor supply voltage |
| 2 | GND (0 V DC) |
| 3 | INP A (Signal input A) |
| 4 | INP B (Signal input B) |
| 5 | RESET (Reset input) |
| 6 | LOCK (Key locking input) |
| 7 | n. c. |
| 8 | n. c. |

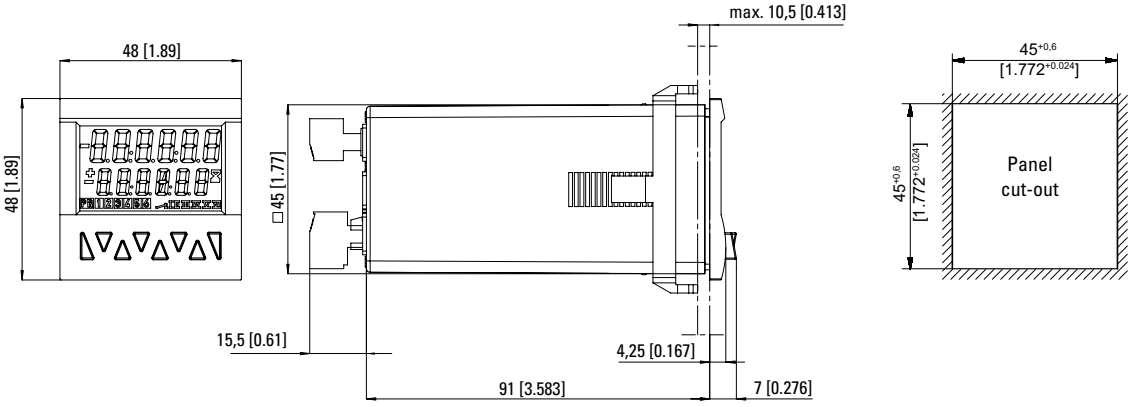



| Pin | Version with relays |
|---|---|
| 9 | Relay contact C. |
| 10 | Relay contact N.O. |
| 11 | Relay contact C. |
| 12 | Relay contact N.O. |
| 13 | Relay contact N.C. |
| 14 | AC: 115/230 V AC N~<br>DC: 11 ... 30 V DC |
| 15 | AC: 115/230 V AC L~<br>DC: GND (0 V DC) |




## Dimensions

Dimensions in mm [inch]





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