

# 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.



Preset counters

<b>DC</b> 11 ... 30 V Power supply	<b>AC</b> 115/230V Power supply	<b>Temperature range</b> -10° + 50°	<b>DIN front bezel</b> DIN 48 x 48	<b>Menu-driven programming</b>	<b>High protection level</b> IP65	<b>Count frequency</b> max. 5 kHz	<b>Plug-in screw terminal</b>	<b>Presets</b> 907: 1 / 908: 2	<b>Multifunction</b>
<b>LCD display</b> 2x6 LCD	<b>Multicolour display</b>								

### 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-colour

### 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

**a** Number of presets

- 7 = 1 preset
- 8 = 2 presets

**b** Outputs

- 0 = relays

**c** LCD version

- 0 = no backlighting
- 1 = green backlighting
- 4 = 2-colour, negative red/green backlighting

**d** Power supply

- 0 = 230 V AC
- 1 = 115 V AC
- 3 = 10 ... 30 V DC

**e** 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
- 6.908.0100.3A0
- 6.908.0101.3A0
- 6.907.0100.0A0
- 6.908.0100.0A0
- 6.908.0101.0A0

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Accessories	Dimensions in mm [inch]			Order-No.
<b>Adapter front bezel, 55 x 55 [2.17 x 2.17]</b>	For cut-out 50 x 50 [1.97 x 1.97] to cut-out 45 x 45 [1.77 x 1.77] with clip mounting for counters 48 x 48 [1.89 x 1.89]		black	<b>T008853</b>
	Gasket 58 x 58 [2.28 x 2.28], for cut-out 50.2 x 50.2 [1.98 x 1.98]			<b>N511004</b>
<b>Adapter front bezel, 60 x 75 [2.36 x 2.95]</b>	For cut-out 50 x 50 [1.97 x 1.97] to cut-out 45 x 45 [1.77 x 1.77] with screw mounting for counters 48 x 48 [1.89 x 1.89]		black	<b>T008860</b>
	Gasket 60 x 75 [2.36 x 2.95] for cut-out 50 x 50 [1.97 x 1.97]			<b>N511020</b>
<b>Adapter front bezel, 72 x 72 [2.83 x 2.83]</b>	For cut-out 68 x 68 [2.68 x 2.68] to cut-out 45 x 45 [1.77 x 1.77] (Mating clip T009420 must be ordered separately)		black mating clip	<b>T008177</b> <b>T009420</b>
<b>Sealing cover type K2, IP65</b>	Suitable for front bezel 75 x 60 [2.95 x 2.36] with screw mounting		transparent/black	<b>G008303</b>
<b>Transparent cover, IP65</b>	For cut-out 50 x 50 [1.97 x 1.97], with screw mounting for counters with cut-out 45 x 45 [1.77 x 1.77] and front bezel 48 x 48 [1.89 x 1.89]		lockable key lockable	<b>G008143</b> <b>G008153</b>
<b>Mounting frame</b> with cut-out 50 x 50 [2.36 x 2.36] via separate adapter also for 45 x 45 [1.77 x 1.77]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 48 x 48 [1.89 x 1.89], 53 x 53 [2.09 x 2.09] and 55 x 55 [2.17 x 2.17]		chromated	<b>G300003</b>
Replacement parts				
<b>8-pin connector</b>	1 ... 8, pitch 3.81			<b>N100498</b>
<b>7-pin connector</b>	9 ... 15 (for 923 / 924), pitch 5.08			<b>N100548u002</b>

Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: [www.kuebler.com/accessories](http://www.kuebler.com/accessories).

Technical data	
General technical data	
<b>Display</b>	<ul style="list-style-type: none"> <li>2 line 2 x 6 digits LCD display upper line 9 mm [0.35"], lower line 7 mm [0.28"], special sign 2 mm high [0.079"]</li> <li>positive green with optional backlighting</li> <li>2-colour upper line: negative, red backlighting lower line: negative, green backlighting</li> </ul>
<b>Operating temperature</b>	-10°C ... +50°C [+14°F ... +122°F] (non-condensing)
<b>Storage temperature</b>	-25°C ... +75°C [-13°F ... +167°F]
<b>Humidity</b> at +40°C [+104°F]	RH 93% (non-condensing)
<b>Altitude</b>	up to 2000 m [6562']
Mechanical Data	
<b>Protection</b>	IP65 (front side)
<b>Weight</b>	AC version approx. 250 g [8.82 oz] DC version approx. 150 g [5.29 oz]
Electrical characteristics	
<b>Sensor power supply</b>	AC 115/230 V, ±10%, 50/60 Hz, max. 6.5 VA
	DC 11 ... 30 V, max. 4 W
<b>External fuse protection</b>	230 V AC T 0.1 A
	115 V AC T 0.125 A
	11 ... 30 V DC T 0.2 A
<b>Data retention</b>	> 10 years, EEPROM
<b>Input modes</b>	pulse counter cnt.dir, up.dn, quad FrErUn, InpA.InpB., InpB.InpB.
<b>Sensor power supply</b>	AC supply 24 V DC -40/+15%, 50 mA at 230 V AC, 40 mA at 115 V AC
	DC supply max. 50 mA external power supply is connected through
<b>EMC</b>	Emitted interference EN55011 class B
	Immunity to interference EN 61000-6-2
<b>Device safety</b>	Designed to EN61010 part 1
	Protection class 2
	Application area Pollution level 2

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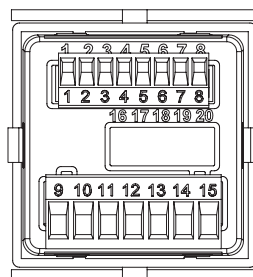
Inputs	
<b>Count inputs</b>	A and B
<b>Polarity of the inputs</b>	programmable for all inputs in common, NPN/PNP
<b>Input resistance</b>	10 kΩ
<b>Count frequency</b>	max. 5 kHz (details see manual) can be damped to 30 Hz (mechanical contacts)
<b>Control / Reset input</b>	Lock, Reset
<b>Min pulse duration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

Outputs	
<b>Switching voltage</b>	max. 250 V AC / 110 V DC
<b>Switching current</b>	max. 3 A AC/DC min. 30 mA DC
<b>Switching capacity</b>	max. 750 VA / 90 W
<b>Output 1</b>	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.
<b>Output 2</b>	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
<b>Reaction time of the outputs</b>	pulse counter < 15 ms timer < 10 ms

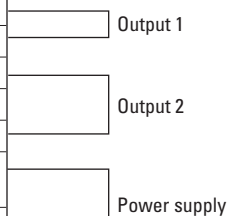
Preset counters

## Terminal assignment

Pin	Signal and control inputs
1	Sennsor power supply
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~ DC: 11 ... 30 V DC
15	AC: 115/230 V AC L~ DC: GND (0 V DC)



## Dimensions

Dimensions in mm [inch]

