

# 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.



<b>DC</b> 11 ... 30 V Power supply	<b>AC</b> 115/230V Power supply	<b>-10° + 50°</b> Temperature range	<b>000000</b> DIN 48 x 48	<b>PR00</b> Menu-driven programming	<b>IP65</b> High protection level	<b>max. 5 kHz</b> Count frequency	<b>Plug-in screw terminal</b>	<b>1 or 2</b> Presets 907: 1 / 908: 2	<b>Multifunctional</b>
<b>2x6 LCD</b> LCD display	<b>Multicolor 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-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

### 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-color, negative red / green backlighting

### d Power supply

- 0 = 230 V AC
- 1 = 115 V AC
- 3 = 11 ... 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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LCD preset counters		1 or 2 presets – pulse, time – 5 kHz (AC+DC)		Codix 907 / 908
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				Order no.
<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, other accessories and installation examples for optional accessories can be found in chapter Accessories or in the Accessories section under: [www.kuebler.com/accessories](http://www.kuebler.com/accessories).

Technical data	
General technical data	
<b>Display</b>	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"] standard positive green with optional backlighting 2-color upper line: negative, red backlighting lower line: negative, green backlighting
<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 characteristics	
<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 timer 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 standards</b>	EN 55011 class B, EN 61000-6-2, EN 61000-6-3, EN 61326-1
<b>Device safety</b>	designed to protection class 2 application area EN61010 part 1 pollution level 2

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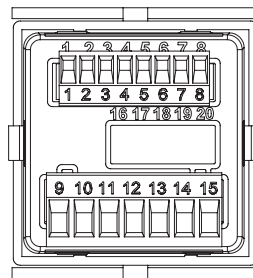
<b>LCD preset counters</b>	<b>1 or 2 presets – pulse, time – 5 kHz (AC+DC)</b>	<b>Codix 907 / 908</b>
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Inputs							
<b>Count inputs</b>	A and B						
<b>Polarity of the inputs</b>	programmable for all inputs in common, NPN/PNP						
<b>Input resistance</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>	<table border="0"> <tr> <td>4 ... 30 V DC:</td> <td>low</td> <td>0 ... 2 V DC</td> </tr> <tr> <td></td> <td>high</td> <td>3.5 ... 30 V DC</td> </tr> </table>	4 ... 30 V DC:	low	0 ... 2 V DC		high	3.5 ... 30 V DC
4 ... 30 V DC:	low	0 ... 2 V DC					
	high	3.5 ... 30 V DC					
<b>Pulse shape</b>	variable, Schmitt-Trigger characteristics						

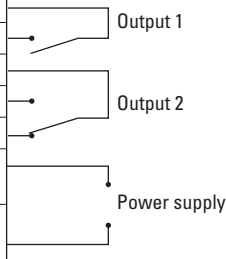
Outputs									
<b>Switching voltage</b>	max. 250 V AC / 110 V DC								
<b>Switching current</b>	max. 3 A AC/DC min. 30 mA DC								
<b>Switching capacity</b>	max. 750 VA / 90 W								
<b>Output 1</b>	<table border="0"> <tr> <td>Mech. service life (switching cycles)</td> <td>2 x 10<sup>7</sup></td> </tr> <tr> <td>N° of switching cycles at 3 A / 250 V AC</td> <td>1 x 10<sup>5</sup></td> </tr> <tr> <td>N° of switching cycles at 3 A / 30 V DC</td> <td>1 x 10<sup>5</sup></td> </tr> <tr> <td colspan="2">Relay with closing contact, progr. normal closed or normal open.</td> </tr> </table>	Mech. service life (switching cycles)	2 x 10 <sup>7</sup>	N° of switching cycles at 3 A / 250 V AC	1 x 10 <sup>5</sup>	N° of switching cycles at 3 A / 30 V DC	1 x 10 <sup>5</sup>	Relay with closing contact, progr. normal closed or normal open.	
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<b>Output 2</b>	<table border="0"> <tr> <td>Mech. service life (switching cycles)</td> <td>20 x 10<sup>6</sup></td> </tr> <tr> <td>N° of switching cycles at 3 A / 250 V AC</td> <td>5 x 10<sup>4</sup></td> </tr> <tr> <td>N° of switching cycles at 3 A / 30 V DC</td> <td>5 x 10<sup>4</sup></td> </tr> <tr> <td colspan="2">Relay with changeover contact</td> </tr> </table>	Mech. service life (switching cycles)	20 x 10 <sup>6</sup>	N° of switching cycles at 3 A / 250 V AC	5 x 10 <sup>4</sup>	N° of switching cycles at 3 A / 30 V DC	5 x 10 <sup>4</sup>	Relay with changeover contact	
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N° of switching cycles at 3 A / 30 V DC	5 x 10 <sup>4</sup>								
Relay with changeover contact									
<b>Reaction time of the outputs</b>	<table border="0"> <tr> <td>pulse counter</td> <td>&lt; 15 ms</td> </tr> <tr> <td>timer</td> <td>&lt; 10 ms</td> </tr> </table>	pulse counter	< 15 ms	timer	< 10 ms				
pulse counter	< 15 ms								
timer	< 10 ms								

## 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]

