

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.



DC 11 ... 30 V Power supply	AC 115/230 V Power supply	-10° + 50° Temperature range	000000 DIN 48 x 48	Prog Menu-driven programming	IP65 High protection level	max. 5 kHz Count frequency	Plug-in screw terminal	1 or 2 Presets 907: 1 / 908: 2	Multifunctional
2x6 LCD 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** . **01** **0X** . **XA0**

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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Accessories	Dimensions in mm [inch]		Order no.
Adapter front bezel, 55 x 55 [2.17 x 2.17]	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	T008853
	Gasket 58 x 58 [2.28 x 2.28], for cut-out 50.2 x 50.2 [1.98 x 1.98]		N511004
Adapter front bezel, 60 x 75 [2.36 x 2.95]	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	T008860
	Gasket 60 x 75 [2.36 x 2.95] for cut-out 50 x 50 [1.97 x 1.97]		N511020
Adapter front bezel, 72 x 72 [2.83 x 2.83]	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	T008177 T009420
	Sealing cover type K2, IP65	suitable for front bezel 75 x 60 [2.95 x 2.36] with screw mounting	transparent/black G008303
Transparent cover, IP65	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	G008143 G008153
	Mounting frame 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
Replacement parts			Order no.
8-pin connector	1 ... 8, pitch 3.81		N100498
7-pin connector	9 ... 15 (for 923 / 924), pitch 5.08		N100548u002

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.

Technical data	
General technical data	
Display	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
Operating temperature	-10°C ... +50°C [+14°F ... +122°F] (non-condensing)
Storage temperature	-25°C ... +75°C [-13°F ... +167°F]
Humidity at +40°C [+104°F]	RH 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 power supply	AC 115/230 V, ±10 %, 50/60 Hz, 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 power supply	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
EMC standards	EN 55011 class B, EN 61000-6-2, EN 61000-6-3, EN 61326-1
Device safety	designed to protection class 2 application area pollution level 2

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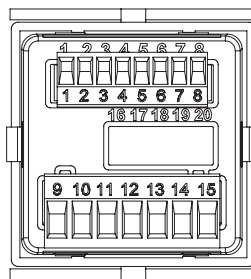
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Inputs							
Count inputs	A and B (timer: A = Gate)						
Polarity of the inputs	programmable for all inputs in common, NPN/PNP						
Input resistance	10 kΩ						
Count frequency	max. 5 kHz (details see manual) can be damped to 30 Hz (mechanical contacts)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

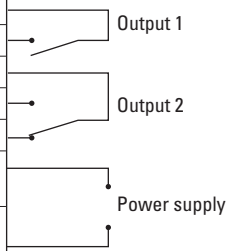
Outputs									
Switching voltage	max. 250 V AC / 110 V DC								
Switching current	max. 3 A AC/DC min. 30 mA DC								
Switching capacity	max. 750 VA / 90 W								
Output 1	<table border="0"> <tr> <td>Mech. service life (switching cycles)</td> <td>2 x 10⁷</td> </tr> <tr> <td>N° of switching cycles at 3 A / 250 V AC</td> <td>1 x 10⁵</td> </tr> <tr> <td>N° of switching cycles at 3 A / 30 V DC</td> <td>1 x 10⁵</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 ⁷	N° of switching cycles at 3 A / 250 V AC	1 x 10 ⁵	N° of switching cycles at 3 A / 30 V DC	1 x 10 ⁵	Relay with closing contact, progr. normal closed or normal open.	
Mech. service life (switching cycles)	2 x 10 ⁷								
N° of switching cycles at 3 A / 250 V AC	1 x 10 ⁵								
N° of switching cycles at 3 A / 30 V DC	1 x 10 ⁵								
Relay with closing contact, progr. normal closed or normal open.									
Output 2	<table border="0"> <tr> <td>Mech. service life (switching cycles)</td> <td>20 x 10⁶</td> </tr> <tr> <td>N° of switching cycles at 3 A / 250 V AC</td> <td>5 x 10⁴</td> </tr> <tr> <td>N° of switching cycles at 3 A / 30 V DC</td> <td>5 x 10⁴</td> </tr> <tr> <td colspan="2">Relay with changeover contact</td> </tr> </table>	Mech. service life (switching cycles)	20 x 10 ⁶	N° of switching cycles at 3 A / 250 V AC	5 x 10 ⁴	N° of switching cycles at 3 A / 30 V DC	5 x 10 ⁴	Relay with changeover contact	
Mech. service life (switching cycles)	20 x 10 ⁶								
N° of switching cycles at 3 A / 250 V AC	5 x 10 ⁴								
N° of switching cycles at 3 A / 30 V DC	5 x 10 ⁴								
Relay with changeover contact									
Reaction time of the outputs	<table border="0"> <tr> <td>pulse counter</td> <td>< 15 ms</td> </tr> <tr> <td>timer</td> <td>< 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]

