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



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



LCD display | Multicolour 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-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(a) . 0 1 0(b) X(c) . X(d) A(e) 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.
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	**T008177**
		mating clip	**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	**G008143**
		key lockable	**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	**G300003**
Replacement parts			
8-pin connector	1 ... 8, pitch 3.81		**N100498**
7-pin connector	9 ... 15 (for 923 / 924), pitch 5.08		**N100548u002**

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.

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"] - positive green with optional backlighting - 2-colour 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 Data

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	Emitted interference	EN55011 class B
	Immunity to interference	EN 61000-6-2
Device safety	Designed to	EN61010 part 1
	Protection class	2
	Application area	Pollution level 2

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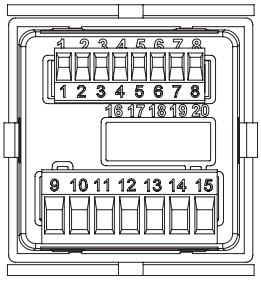
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Inputs			
Count inputs			A and B
Polarity of the inputs			programmable for all inputs in common, NPN/PNP
Input resistance			10 kΩ
Count frequency			max. 5 kHz (details see manual) can be damped to 30 Hz (mechanical contacts)
Control / Reset input			Lock, Reset
Min pulse duration of signal and control inputs			statical /1 ms
Switching levels with AC/DC supply	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		
Mech. service life (switching cycles)		2×10^7
N° of switching cycles at 3 A / 250 V AC		1×10^5
N° of switching cycles at 3 A / 30 V DC		1×10^5
Relay with closing contact, progr. normal closed or normal open.		
Output 2		
Mech. service life (switching cycles)		20×10^6
N° of switching cycles at 3 A / 250 V AC		5×10^4
N° of switching cycles at 3 A/30 V DC		5×10^4
Relay with changeover contact		
Reaction time of the outputs	pulse counter	< 15 ms
	timer	< 10 ms

Terminal assignment

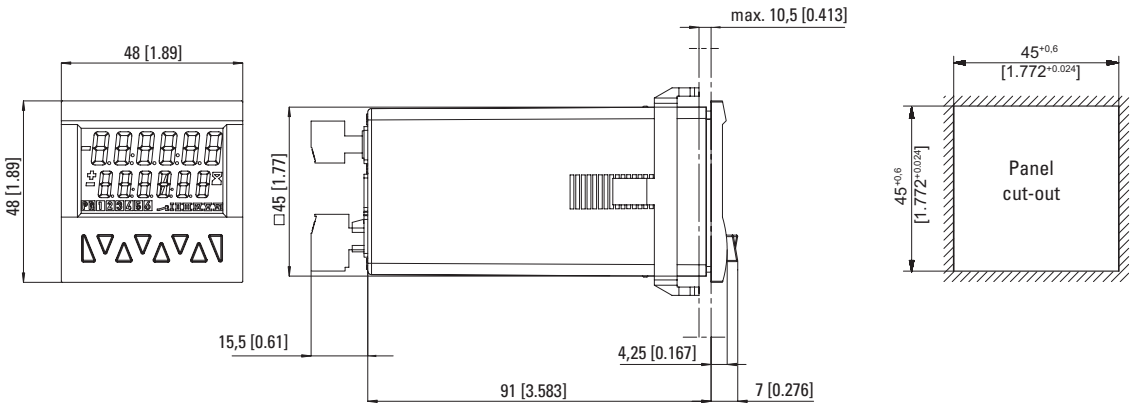
Pin	Signal and control inputs
1	Sennsor power supply
2	GND (0 V DC)
3	INP A (Signal input A)
4	INP B (Signal input B)
5	RESET (Reset input)
6	LOCK (Key locking input)
7	n. c.
8	n. c.



Pin	Version with relays	
9	Relay contact C.	Output 1
10	Relay contact N.O.	
11	Relay contact C.	Output 2
12	Relay contact N.O.	
13	Relay contact N.C.	
14	AC: 115/230 V AC N~ DC: 11 ... 30 V DC	Power supply
15	AC: 115/230 V AC L~ DC: GND (0 V DC)	

Dimensions

Dimensions in mm [inch]



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