Preset counters, electronic

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

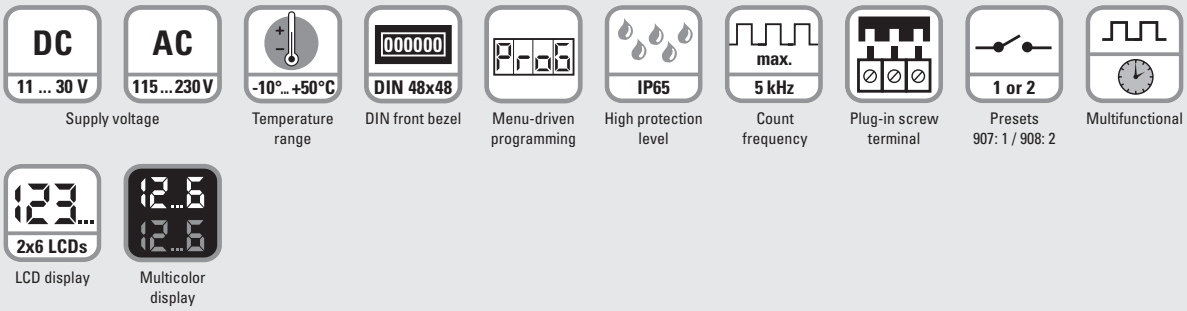


The pulse and time preset counters Codix 907 and 908 offer all important counter functions with an unbeatable price/performance ratio.

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(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-color, negative red / green backlighting

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

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

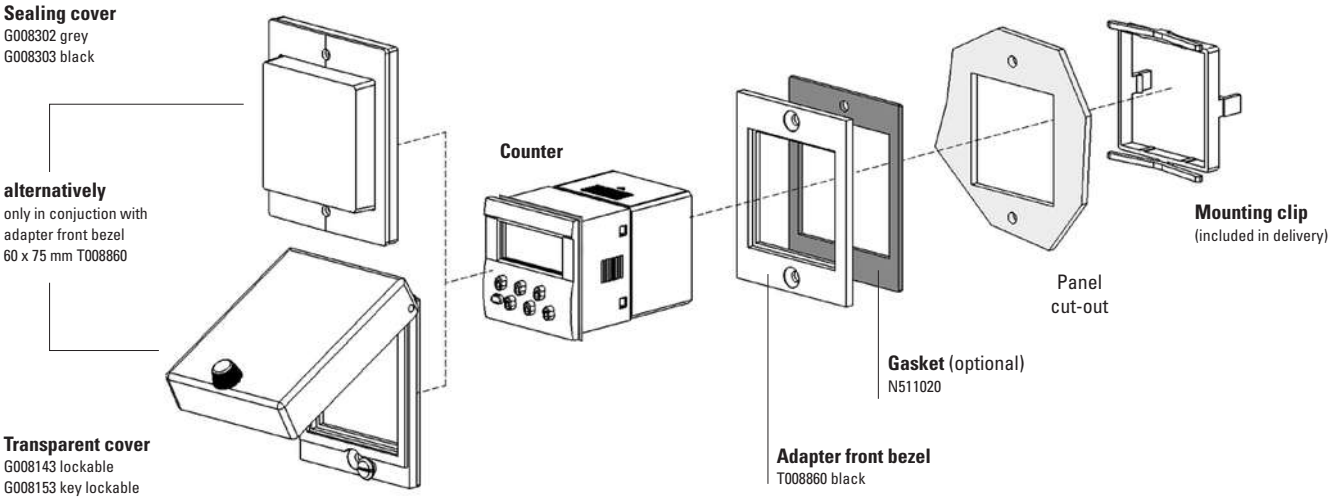
Delivery specification
- Preset counter
- Mounting clip
- 8 pin screw terminal
- 7 pin screw terminal
- Operating instructions

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 / 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 black	**T008170** **T008171**	**N511017**
		**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	**T008853**	**N511004**
		**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	**T008860**	**N511020**
		**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 black Mating clip	**T008176** **T008177** **T009420**	**N511016**
		**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	**N510226**	–
Sealing cover IP65		**K2**	only in conjuction with adapter front bezel 60 x 75 mm T008860	transparent / grey transparent / black	**G008302** **G008303**	–
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 T008860	transparent / black	**G008143**	–
		**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 T008860	transparent / black	**G008153**	–
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	**G300003**	
Screw terminal (replacement part)			1 ... 8, pitch 3.81 9 ... 15, pitch 5.08	8-pin 7-pin	**N100498** **N100548u002**	

incl. in delivery

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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]
Relative humidity 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, 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 %, 50 mA at 230 V AC, 40 mA at 115 V AC
	DC supply	max. 50 mA external supply voltage is 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 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

Approvals

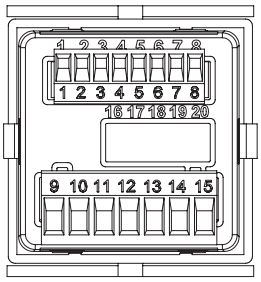
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU
UKCA compliant in accordance with	
EMC Regulations	S.I. 2016/1091
RoHS Regulations	S.I. 2012/3032
Low Voltage Regulations	S.I. 2016/1101

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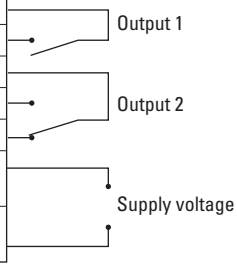
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Terminal assignment

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.

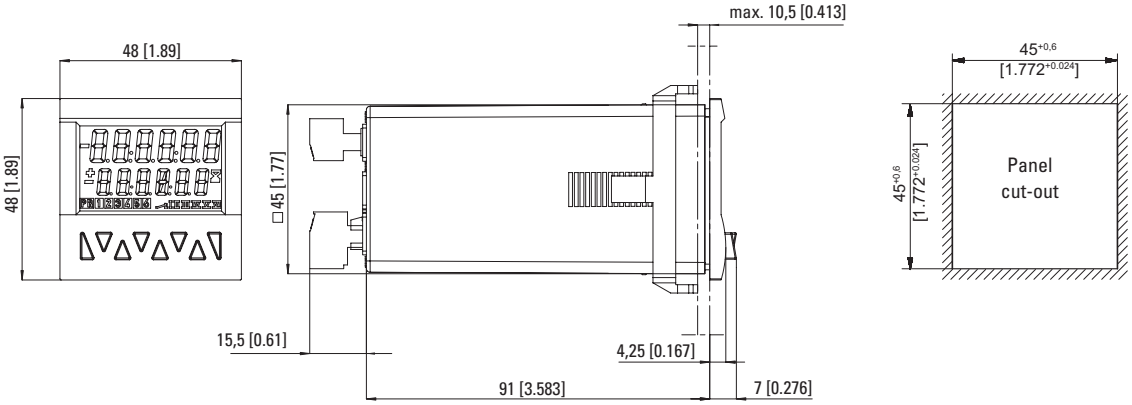


Pin	Version with relays
9	Relay contact C.
10	Relay contact N.O.
11	Relay contact C.
12	Relay contact N.O.
13	Relay contact N.C.
14	AC: 115/230 V AC N~ DC: 11 ... 30 V DC
15	AC: 115/230 V AC L~ DC: GND (0 V DC)



Dimensions

Dimensions in mm [inch]



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