

Preset counters, electronic

LCD preset counters	1 or 2 presets – pulse, time – 5 kHz (AC+DC)	Codix 907 / 908
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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 Supply voltage	AC 115 ... 230 V Supply voltage	 -10°...+50°C Temperature range	 DIN 48x48 DIN front bezel	 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
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 2x6 LCDs LCD display	 Multicolor display
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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 b c d e

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

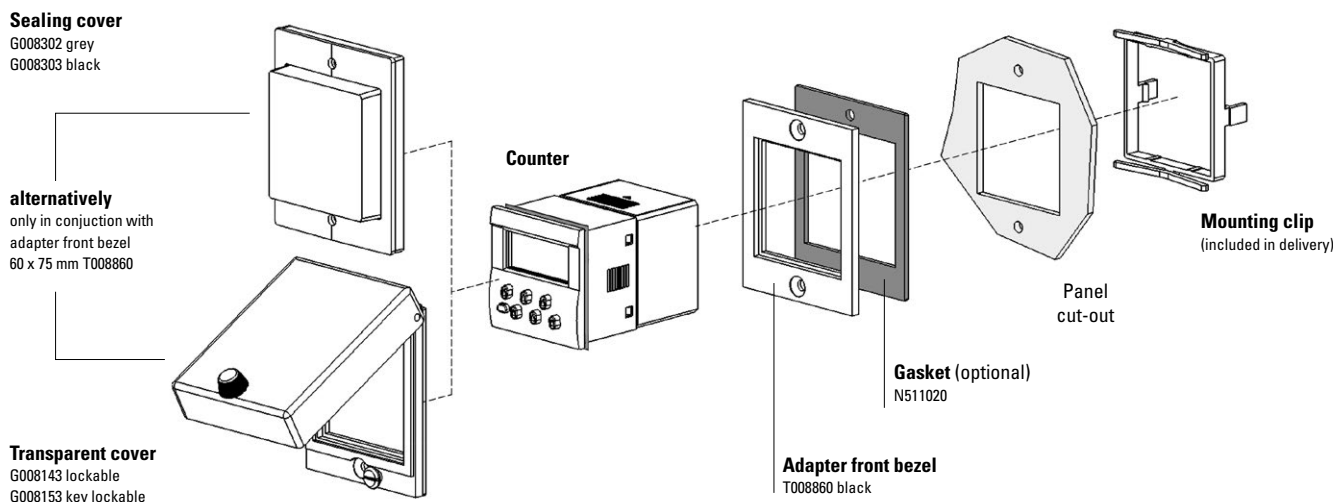
Stock types

- 6.907.0100.3A0
- 6.908.0101.3A0

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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 conjunction 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 conjunction 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 conjunction 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	8-pin	N100498	
			9 ... 15, pitch 5.08	7-pin	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 protection class	EN 61010 part 1	
	application area	2 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 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		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	pulse counter	< 15 ms	
	timer	< 10 ms	

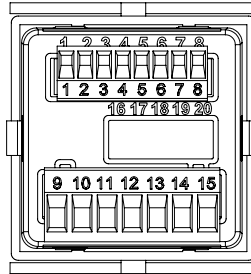
Approvals			
CE compliant in accordance with			
	EMC Directive	2014/30/EU	
	RoHS Directive	2011/65/EU	
	Low Voltage Directive	2014/35/EU	

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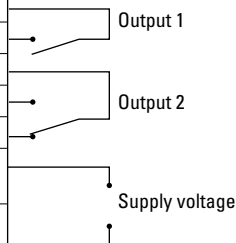
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Terminal assignment

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]

