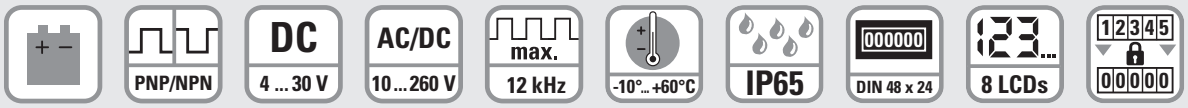
LCD pulse counters | Adding or subtracting (battery) | Codix 130



The Codix 130 is a simple battery powered pulse counter for fast and slow count pulses with 8-digit LCD display, optional backlighting, for NPN, PNP and high voltage applications.



Powerful

- High quality LCD display with 8 mm high figures
- Count direction adding and subtracting via control input
- Battery life approx. 8 years
- Optional display backlighting
- Filter function for bounce-free counting with mechanical contacts
- Count frequency max. 12 kHz
- High protection level IP65

Simple

- Screw terminals, RM 5 mm
- Reset key lockable via the input 'Reset Enable'
- For positive and negative counting edges, depending on version
- High voltage version for 10 … 260 V AC/DC voltage pulses
- Large 8-digit LCD display with 8 mm high figures

Order code

6.130	.	012	.	8	X	X
					ⓐ	ⓑ

ⓐ *Backlighting*
5 = without [1]
6 = with [1]

ⓑ *Count input (input type: count) – single-channel, adding or subtracting counting*

	Input type	*INP A*				*INP B*			
0 [1] =	Count [2]	0 ... 0.7 V DC	count	NPN	7 kHz	0 ... 0.7 V DC	count	NPN	30 Hz
2 [1] =		4 ... 30 V DC	count	PNP	12 kHz	0 ... 0.7 V DC	count	NPN	30 Hz
3 [1] =		10 ... 260 V AC/DC	count	AC/DC	30 Hz	10 ... 260 V AC/DC	reset	AC/DC	–

Delivery specification
- Pulse counter
- Mounting clip
- Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Gasket
- Instruction manual, multilingual

1) Stock types
2) Single-channel, adding or subtracting counting

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Pulse counters, electronic

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Accessories	Dimensions in mm [inch]	Order-No.
Adapter front bezel, 72 x 36 [2.83 x 1.42]	For cut-out 68 x 33 [2.68 x 1.30] to cut-out 45 x 22.2 [1.77 x 0.87], for counters 48 x 24 [1.89 x 0.94], as set, black and silver anodised	**162704 Set**
Adapter front bezel, 48 x 48 [1.89 x 1.89]	For cut-out 45 x 45 [1.77 x 1.77] to cut-out 45 x 22.2 [1.77 x 0.87], with clip mounting for counters 48 x 24 [1.89 x 0.94], black	**T008883**
Adapter front bezel, 60 x 50 [2.36 x 1.97]	For cut-out 54 x 29 [2.13 x 1.14] to cut-out 45 x 22.2 [1.77 x 0.87], with screw mounting and gasket for counters 48 x 24 [1.89 x 0.94], black	**N003001**
Transparent cover, lockable, IP65	For cut-out 54 x 29 [2.13 x 1.14], for screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 [1.97 x 0.98] or 45 x 22.2 [1.77 x 0.87]	**N003002**
Sealing cover type K1, IP65	Suitable for front bezel 60 x 50 [2.36 x 1.97], for screw mounting of electromech. counters and via adapter front bezel N003001 for counters 48 x 24 [1.89 x 0.94]	**G008301**
Mounting frame with cut-out 50 x 25 [2.36 x 1.97] via separate adapter also for 45 x 22.2 [1.77 x 0.87]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 53 x 28 [2.09 x 1.10] and via separate adapter (T008180) for counters 48 x 24 [1.89 x 0.94], chromated	**G300004**

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	LCD, 8 digits, 8 mm [0.32"] high
Backlighting	external electrical source 24 V DC ±20 %, 50 mA
Modes	adding or subtracting (selectable)
Display range	-9999999 ... 99999999, with overflow display
Reset	manual and electrical
Working temperature	-10°C ... +55°C [+14°F ... +131°F] (non-condensing)
Operating temperature	-10°C ... +60°C [+14°F ... +140°F] (non-condensing)
Storage temperature	-20°C ... +70°C [-4°F ... +158°F]
Altitude	up to 2000 m [6562']

Electrical characteristics

Power supply		internal lithium battery approx. 8 years at 20°C [68°F]
EMC	Emitted interference	EN 55011 class B
	Immunity to interference	EN 61000-6-2
Device safety	Designed to	EN 61010 part 1
	Protection class	2
	Application area	Pollution level 2
UL approval		File-No.: E128604

Mechanical characteristics

Housing	dark grey RAL 7021
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]

Counting inputs

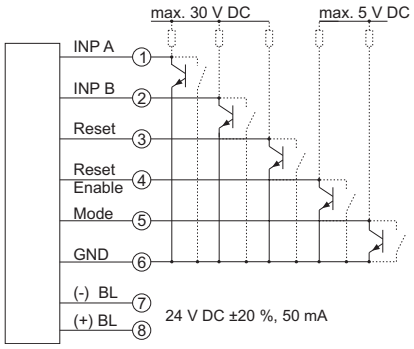
Counting input of the DC-versions (max. 30 V DC)		
slow counting input	max.	30 Hz NPN
fast counting input	max.	12 kHz (PNP), 7 kHz (NPN)
switching level NPN	LOW	0 ... 0.7 V DC
	HIGH	3 ... 30 V DC
switching level PNP	LOW	0 ... 0.7 V DC
	HIGH	4 ... 30 V DC
Counting input of the high voltage versions (10 ... 260 V DC/V AC)		
optocoupler input,		max. 30 Hz
min. pulse time		16 ms
switching level	LOW	0 ... 2 V AC/DC
	HIGH	10 ... 260 V AC/DC
Counting direction switching (only DC-version)		
mode		see order table
contact input		Open Collector NPN (switching at 0 V)
switching level NPN	LOW	0 ... 0.7 V DC
	HIGH	3 ... 5 V DC
Reset input (only DC and high voltage)		
minimum pulse time	DC	50 ms
	high voltage	16 ms
contact input DC – NPN	LOW	0 ... 0.7 V DC
	HIGH	3 ... 30 V DC
high voltage input		10 ... 260 V AC/DC
Electrical reset key locking (for DC and high voltage)		
contact input		Open Collector NPN (switching at 0 V)
switching level NPN	LOW	0 ... 0.7 V DC
	HIGH	3 ... 5 V DC

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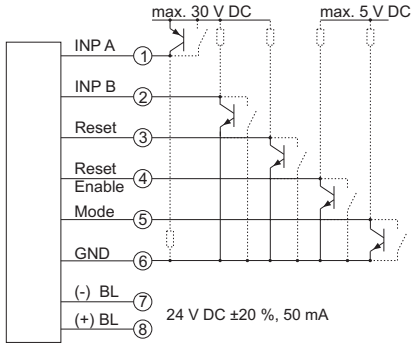
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Terminal assignment

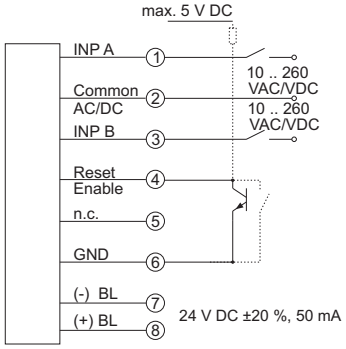
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DC type: 6.130.012.8x2



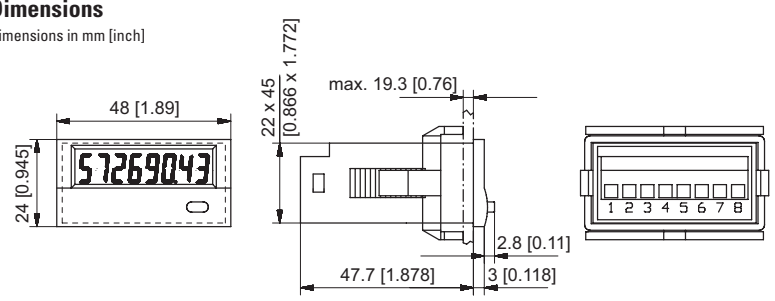
AC type: 6.130.012.8x3

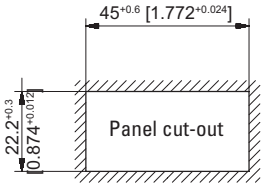


BL = backlighting

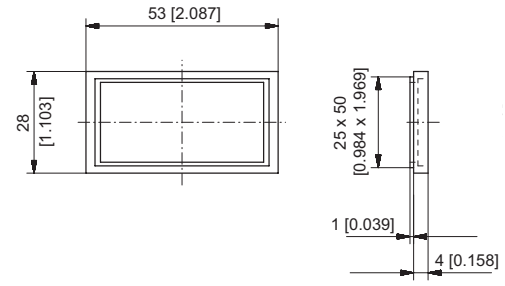
Dimensions

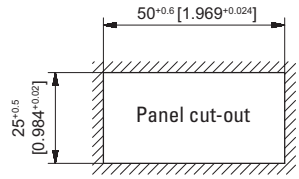
Dimensions in mm [inch]



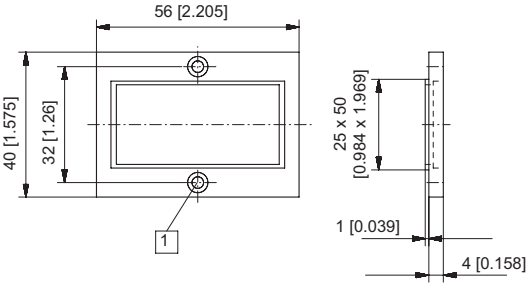


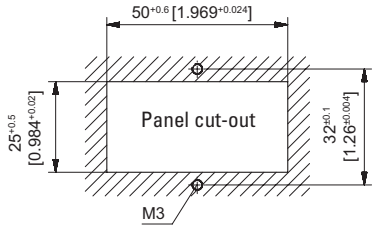
Front bezel for clip mounting (included in delivery)





Front bezel for screw mounting (included in delivery)





1 Countersinking Af3, DIN 74

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