Kübler

Multifunction devices, electronic

LED dual function displays

6 count modes with tachometer (DC)

Codix 52P



The Codix 52P is a voltage-powered pulse counter/ position display with 4 different count input modes and separate tachometer.

With separate inputs, for fast and slow count pulses, with 6-digit LED display for NPN, PNP input signals.





DIN front bezel









Totaliser







er/ Frequency meter/ tachometer

Position

Frequency meter HRA

Powerful

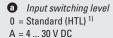
- Fast count and frequency input input frequency max. 30 kHz
- · Robust housing IP65 protected
- · Very bright LED display, 8 mm high, 6 digits
- Very accurate precise frequency measurement principle (HRA-High Rate Accuracy System)
 Frequencies up to 38 Hz are calculated using time-interval (period duration) measurement. Frequencies > 38 Hz are calculated using a special time base (gate time) measurement. A very high accuracy of < 0.1% is achieved, even with very short gate times. The resulting measurement is available after a
- Short start-up time detects input pulses just 16 msec after being switched on => no pulses are lost with a simultaneous motor start-up

User-friendly and universal

- Large keys can also be operated when wearing gloves
- Programming:
 - Simple uniform menu-driven programming and operation
 - Possible to enter the programming also during operation with a confirmation prompt
 - Pressing the right key switches between displays
- Individually programmable scaling: multiplication and division factor (0.0001...99.9999), to display corresponding engineering units, e.g. position in 1/10 mm and speed in RPM
- · Separate factors for frequency- and pulse counting
- 4 different count input modes for the position display:
 2-channel input for detecting count direction, difference or adding mode, quadrature x1, x2 or x4. 1 separate input for rotary speed and speed, display in 1/min or 1/sec
- Inputs: as an alternative to the HTL inputs, devices are available with a 4 ... 30 V DC input level, for use as parallel displays to PLCs

Order code

6.52P . 01 2 . 3 X 0



- Delivery specification

 Digital counter
- Mounting clip
- Gasket
- Instruction manual, multilingual
- 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"]

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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 anodise	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] blace	k 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] blace	k N003001
Transparent cover, lockable, IP65	For cut-out 54×29 [2.13 \times 1.14], for screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50×25 [1.97 \times 0.98] or 45×22.2 [1.77 \times 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] chromate	d 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		6 digits, red 7 segment LED display; 8 mm [0.32"] high
Data backup		EEPROM
Operating temperature	10 26 V DC	-20°C +65°C [-4°F +149°F]
(non-condensing)	> 26 30 V DC	-20°C +55°C [-4°F +131°F]
Storage temperature		-25°C +70°C [-13°F +158°F]

Electrical characteristics			
Power supply		1030 V DC, with integrated reverse polarity protection	
Current consumption		max. 40 mA	
EMC	Emitted interference	EN 55011 class B	
	Immunity to interference	EN 61000-6-2	

Mechanical characteristics	
Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]

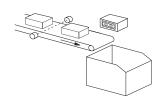
Inputs		
Polarity of inputs		programmable, NPN or PNP for all inputs
Input resistance		approx. 5 kΩ
Counting frequency 1)		max. 30 kHz, can be damped to 30 Hz
Display range	tachometer	1/min or 1/sec
Minimum pulse duration of the reset input		5 ms
Input switching level (HTL)	LOW HIGH	0 0.2 x U _B [V DC] 0.6 x U _B 30 V DC
Input switching level at 4 30 V DC	LOW HIGH	0 2 V DC 4 30 V DC
Accuracy		< 0.1 % frequency meter, tachometer

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Applications for frequency and position display / totaliser

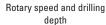
Position and rotary speed applications, e.g.

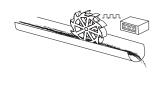
- OEM equipment or retrofitting to drilling machines
- OEM equipment on flow measuring plant, e.g. total flow and current flow
- Total piece count and pieces per minute, where the pulse counting occurs in the add/subtract mode, in order to deduct reject parts
- Production data acquisition: total piece count and production speed, or absolute distance traversed and current speed



Piece count on conveyor and production speed







Flow rate and total volume



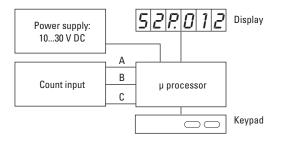
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Block diagram



Terminal assignment



PIN	DC version
1	10 30 V DC
2	0 V GND
3	INP A (count)
4	INP B (count)
5	INP C (frequency)

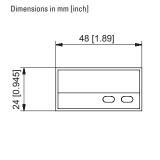
Function of the inputs INP A, INP B, INP C

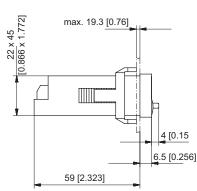
INP A and INP B:

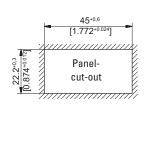
Two channel pulse input with 6 different count modes

Frequency input, single channel

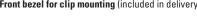
Dimensions

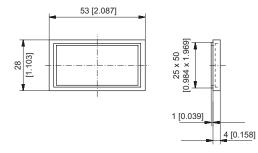


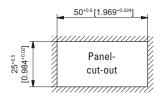




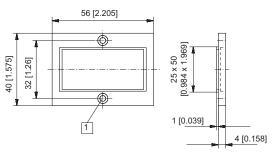
Front bezel for clip mounting (included in delivery)

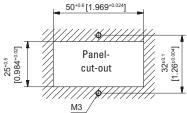






Front bezel for screw mounting (included in delivery)





1 Countersinking Af3, DIN 74

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