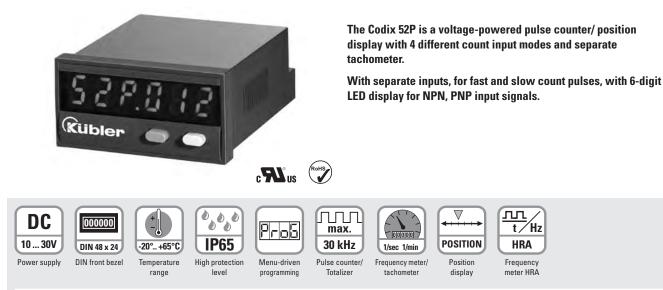




6 count modes with tachometer (DC)

Codix 52P



#### **Powerful**

- Fast count and frequency input input frequency max. 30 kHz (can be damped to 30 Hz for mechanical contacts).
- 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 max. of 50 ms.
- 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

a Input switching level

0 =Standard (HTL)

A = 4 ... 30 V DC

- Delivery specification • 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



LED dual function displays	6 count modes with tachometer (DC)	Codix 52P
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	<b>T008883</b>
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] <b>G00830</b>	
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, other accessories and installation examples for optional accessories can be found in chapter accessories or in the accessories section under: www.kuebler.com/accessories.

\_\_\_\_

\_\_\_\_

### Technical data

General technical d	lata	
Display		6 digits, red 7 segment LED display; 8 mm [0.32"] high
Data backup		EEPROM
Operating temperature	10 26 V DC > 26 30 V DC	-20°C +65°C [-4°F +149°F] -20°C +55°C [-4°F +131°F] (non-condensing)
Storage temperature		-25°C +70°C [-13°F +158°F]
Electrical character	riation	

Electrical characteristics	
Power supply	10 30 V DC, with integrated reverse polarity protection
Current consumption	max. 40 mA
EMC standards	EN 55011 class B, EN 61000-6-2, EN 61000-6-3 EN 61326-1
UL approval	file E128604

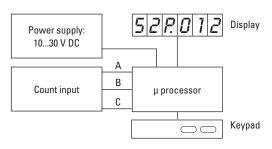
Mechanical characteristics	
Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Vibration resistance acc. to EN 60068-2-6	10 55 Hz / 1 mm [0.04"] / 30 min
Shock resistance acc. to EN 60068-2-27	100 G: 2 ms 10 G: 6 ms

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



#### LED dual function displays 6 count modes with tachometer (DC) Codix 52P Applications for frequency and position display / totalizer 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 00000 • 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 Rotary speed and drilling Flow rate and total Piece count on conveyor and production speed depth volume

#### **Block diagram**



#### **Terminal assignment**

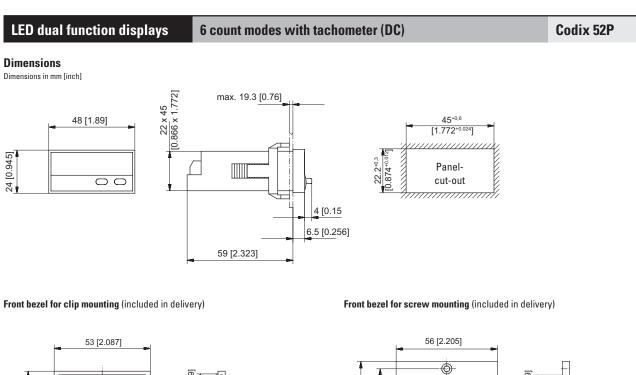
1	2	3	4	5

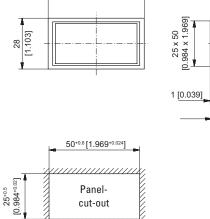
PIN	DC version
1	10 30 V DC
2	0 V GND
3	INP A (count)
4	INP B (count)
5	INP C (frequency)

Function of the inputs INP A, INP B, INP C INP A and INP B: Two channel pulse input with 6 different count modes INP C:

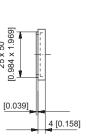
Frequency input, single channel

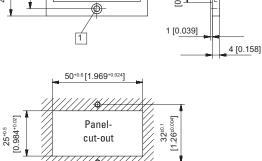






\_\_\_\_\_





25 × 50 [0.984 × 1.969]

1 Countersinking Af3, DIN 74

М3

7

40 [1.575] 32 [1.26]

1

### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Counters & Tachometers category:

Click to view products by Kubler manufacturer:

Other Similar products are found below :

LC2H-FE-2K-N H7CN-XLN DC12-48 LC24-F-N H7CXAWD1NDC1224AC24 H7ER-NV1-H H7CX-A114S-N AC100-240 H7CX-AWSD-N-DC12-24 H7CX-AU-N AC100-240 GPMZC-SET CX6S-1P2F CX6S-1P4F CX6S-2P2F CX6S-2P4F H127.010A01H H5KLR-11 100-240V AC/DC H7CX-AUD1-N H7CX-AW-N 3.550.401.075 3.550.401.351 LC2H-C-2K-N LC2H-C-30-N LC2H-F-DL-2KK LC4H-R4-AC240VS LC4H-R6-AC240V 1.150.510.012.550 1.150.510.054.550 1.150.510.056.550 6.520.012.300 6.560.010.300 SLE-73-1400-1-4-01 SLIK-94-1521-1-3-001 SLN-94-1421-1-3 SPI-73-1411-1-3-011 CT6S-1P4 Y-50 LC4H-R4-AC24V LC4H-R4-DC24V CT6S-2P4 LC2H-F-DL-2KK-B LC2H-FE-DL-2KK-B LC2H-FE-FV-30 H127.010A01G H5KLR-8B 12-48 AC/DC H7CX-A11-N H7CX-AD-N H7CX-AU-N H7ER-NV1 H8DA 12-48V AC/DC 87622062 99776901