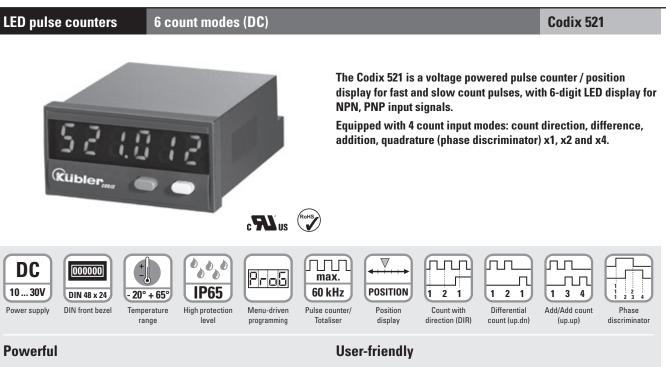


Pulse counters, electronic



- Fast count input input frequency max. 60 kHz
- Robust housing IP65 protected
- Very bright LED display, 8 mm high
- Position, difference, adding or count direction detection
 programmable for positive (PNP) or OV (NPN) switching input pulses
 - fast count input with an input frequency of max. 60 kHz, can be damped to 30 Hz for mechanical contacts
- Short start-up time detects input pulses just 16 msec after being switched on => no pulses are lost with a simultaneous motor start-up

- Large keys can also be operated when wearing gloves
- Simple uniform menu-driven programming and operation

 possible to enter the programming also during operation
 with a confirmation prompt
- 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
- 4 different count input modes:
 2-channel count input for detecting count direction, difference or adding mode, quadrature with x1, x2 or x4 evaluation
- · Freely programmable setpoint
- 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
- Optional output as zero signal

Order code	6.521.	01 <mark>X</mark> . 3 X 0	
 Output 1 = optocoupler output 2 = no output ¹⁾ 	 Input switching level Standard (HTL) ¹⁾ A = 4 30 V DC 	<i>Delivery specification</i> – Counter – Mounting clip – Gasket	 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)

- Instruction manual, multilingual

53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]



Pulse counters, electronic

LED pulse counters 6 count r	nodes (DC)	Codix 521
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	d 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] blac	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] blac	k 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	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 technica	l data	
Display		6 digits, red 7 segment LED display; 8 mm [0.32"] high
Data backup		EEPROM
Operating temperatu	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 characteristics		
Power supply		1030 V DC, with reverse polarity protection
Current consumption		max. 55 mA
EMC Ir	Emitted interference nmunity to interference	EN 55011 class B EN 61000-6-2

Inputs		
Polarity of inputs		programmable, NPN or PNP for all inputs
Input resistance		approx. 5 kΩ
Counting frequency		max. 60 kHz, can be damped to 30 Hz; for position display max. 25 kHz
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

Mechanical characteristics	
Housing	front panel mount 48x24mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]

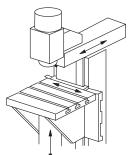
Outputs (option	nal
Optocoupler outp	ut

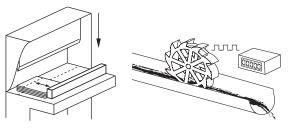
max. 30 V DC, 10 mA

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]

Applications for position displays / totalisers

- Positioning tasks on processing machines, such as sawing machines, milling machines, bending and folding machines, etc.
- Production data acquisition by means of piece counting (using difference or adding)
- Totalizing flow, quantity and other scalable media
- Counting tasks such as quantity and piece counting
- Accessories, OEM equipment or retrofitting to production machines
- · Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pickand-place machines, guillotines, special-purpose vehicles etc.





Position on milling machine

Position or quantity

Flow rate



Pulse counters

Pulse counters, electronic

