

Pulse counters, electronic

LED pulse counters

Adding (DC)

Codix 520



The Codix 520 is a simple voltage powered pulse counter for fast and slow count pulses, with 6-digit LED display, for NPN / PNP input signals.

















Power supply

DIN front bezel

Temperature

High protection

Operation

Input type

Totaliser

Powerful

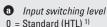
- Fast count input input frequency max. 60 kHz
- · Robust housing IP65 protected
- · Very bright LED display, 8 mm high
- · Simple totalising and quantity counter
 - single channel count input and reset input
 - programmable for positive (PNP) or OV (NPN) switching input pulses
 - fast count input with 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

User-friendly

- 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
- Programmable decimal point, can be set from 0.0 to 0.000
- Manual or electrical reset tamper-proof due to lockable reset function
- · 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

6.520 012 3|X|0



0 = Standard (HTL) 1) $A=4 \dots 30 \ V \ DC$

Delivery specification

- 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 68×33 [2.68 \times 1.30] to cut-out 45×22.2 [1.77 \times 0.87], for counters 48×24 [1.89 \times 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 54×29 [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 48×24 [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

Inputs

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	1	
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]

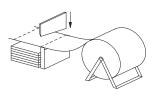
Electrical cha	aracteristics	
Power supply		1030 V DC, with integrated reverse polarity protection
Current consum	ption	max. 45 mA
EMC	Emitted interference Immunity to interference	EN 55011 class B EN 61000-6-2

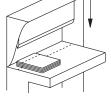
Mechanical characteristics	
Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]

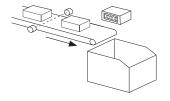
Polarity of inputs programmable, NPN or PNP for all inputs Input resistance approx. 5 $k\Omega$ **Counting frequency** max. 60 kHz, can be damped to 30 Hz Minimum pulse duration of the reset input Input switching level (HTL) LOW $0 \dots 0.2 \, x \, U_B$ (V DC) HIGH $0.6~x~U_B~...~30~V~DC$ Input switching level at LOW 0 ... 2 V DC 4 ... 30 V DC HIGH 4 ... 30 V DC

Applications for pulse counters / totalisers

- Simple count 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, pick-and-place machines, guillotines, special-purpose vehicles etc.







Piece-counting

Number of cuts

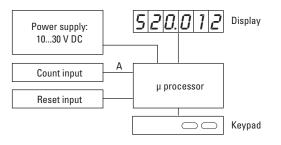
Piece-counting on conveyor



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Block diagram

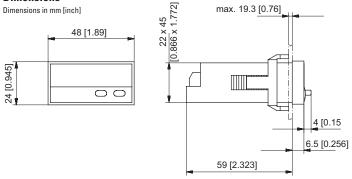


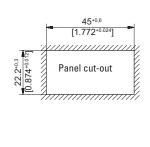
Terminal assignment



PIN	without optocoupler
1	10 30 V DC
2	0 V GND
3	INP
4	_
5	Reset

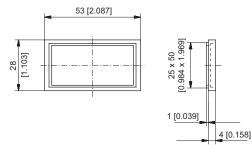
Dimensions

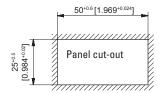




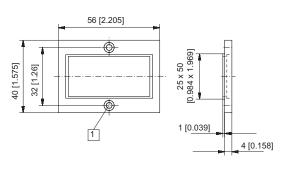
Front bezel for clip mounting (included in delivery)

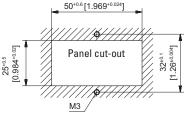
From bezer for crip mounting (included in delivery)





Front bezel for screw mounting (included in delivery)





1 Countersinking Af3, DIN 74