

Pulse counters, electronic

LED pulse counters Adding (DC)	Codix 520
S 2 3 3 2 2 4 Kibler	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.
	Pration gloves Input type Pulse counter/ Totalizer
 Powerful Fast count input – input frequency max. 60 kHz. 	 User-friendly Large keys – can also be operated when wearing gloves.

- Robust housing IP65 protected.
- Very bright LED display, 8 mm high.
- · Simple totalizing 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.
- 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

- 3 X 0 6.520 . 012
- a Input switching level 0 = Standard (HTL) 1)

Delivery specification

- A = 4 ... 30 V DC
- · 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



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Accessories / Mou	nting examples					
Sealing cover G008300 grey G008301 black alternatively	0	Counter				Mounting clip (included in delivery)
only in conjuction with adapter front bezel 60 x 50 mm N003001	0	(included	Gasket N511029 in delivery) N003001 black	cu	anel t-out	
Transparent cover	Gask N5110	et (optional) 19				
		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		53 x 28 mm [2.09 x 1.10"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	grey black anthracite	T008164 T008165 T008180	N511015
		56 x 40 mm [2.20 x 1.57"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black anthracite	T008161 T008181	N511045
		72 x 36 mm [2.83 x 1.42"]	for cut-out 68 x 33 mm [2.68 x 1.30"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black and silver anodised as set	162704Set	-
	•	60 x 50 mm [2.36 x 1.97"]	for cut-out 54 x 29 mm [2.13 x 1.14"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black	N003001	N511005
		48 x 48 mm [1.89 x 1.89"]	for cut-out 45 x 45 mm [1.77 x 1.77"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black	T008883	-
Sealing cover IP65	T	K1	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	G008300 G008301	-
Transparent cover IP65		1 Dv (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14"], only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / black	N003002	N511019
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		N511029 N511034	
Mounting frame		cut-out 50 x 25 mm [1.97 x 0.98"]	via adapter T008180 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	G300004	-
Enclosure blind		48 x 24 mm [1.89 x 0.94"]	for cut-out 45 x 22.2 mm [1.77 x 0.94"] and cut-out 50 x 25 mm [1.97 x 0.98"]	anthracite	G003836	-
		1	1		incl. in delivery	

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LED pulse counters

Technical data

Current consumption

Adding (DC)

ibler

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 > 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			
Supply voltage		10 30 V DC, with integrated reverse polarity protection	

max. 45 mA

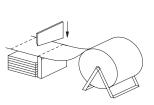
Inputs		
Polarity of inputs	programmable, NPN or PNP for all inputs	
Input resistance	approx. 5 kΩ	
Counting frequency	max. 60 kHz, can be damped to 30 Hz	
Minimum pulse duration of the reset input	5 ms	
Input switching level (HTL)		
LOV	V 0 0.2 x U _B (V DC)	
HIG	H 0.6 x U _B 30 V DC	
Input switching level at 4 30 V DC		
LOV	V 02VDC	
HIG	H 4 30 V DC	
A		

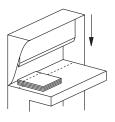
Mechanical characteristics	
Housing	front panel mount acc. to DIN 43700 48 x 24 mm [1.89 x 0.94"] RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Vibration resistance acc. to EN 60068-2-6	10 55 Hz / 1 mm [0.04"] / 30 min
Shock resistance acc. to EN 60068-2-27	100 G: 2 ms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

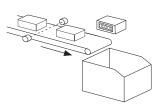
Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with EMC Directive RoHS Directive	2014/30/EU 2011/65/EU
UKCA compliant in accordance with EMC Regulations RoHS Regulations	S.I. 2016/1091 S.I. 2012/3032

Applications for pulse counters / totalizers

- 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.





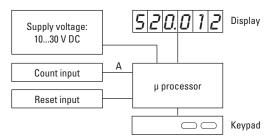


Piece-counting

Number of cuts

Piece-counting on conveyor

Block diagram



Terminal assignment

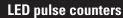
1	2	3	4	5

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

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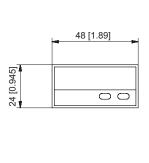


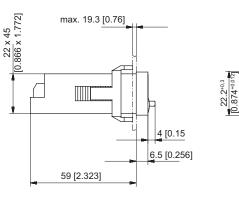
Adding (DC)

Codix 520

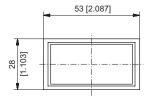
Dimensions

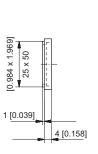
Dimensions in mm [inch]

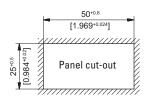




Front bezel for clip mounting (included in delivery)





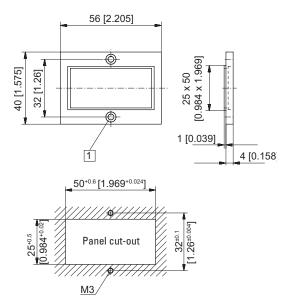


Front bezel for screw mounting (included in delivery)

45+0,6

-[1.772^{+0.024}]

Panel cut-out



1 Countersinking Af3, DIN 74