

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.









DIN front bezel













Input type

Pulse counter/ Totalizer

Powerful

- Fast count input input frequency max. 60 kHz.
- 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.

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 6.520012

Input switching level 0 = Standard (HTL) 1)

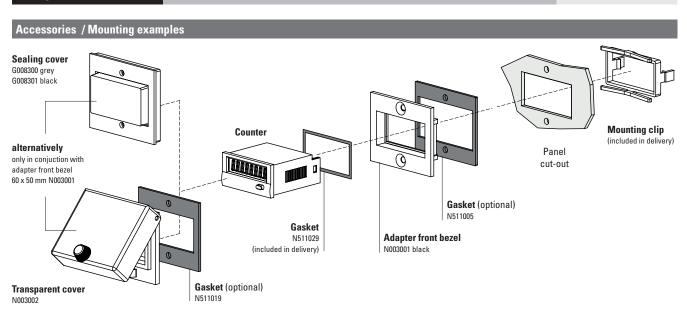
A = 4 ... 30 V DC

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



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		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		K1	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	G008300 G008301	-
Transparent cover IP65	3	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	123855	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	-

incl. in delivery



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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 > 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]

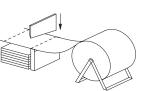
Electrical characteristics	
Supply voltage	1030 V DC, with integrated reverse polarity protection
Current consumption	max. 45 mA
EMC standards	EN 55011 class B, EN 61000-6-2, EN 61000-6-3, EN 61326-1
UL approval	file E128604

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

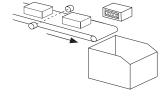
Mechanical characteristics	
Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Vibration resistance acc. to EN 60068-2-6	10 55 Hz / 1 mm [0.04"] / 30 min
Shock resistance acc. to EN 60068-2-27	100 G: 2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

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.





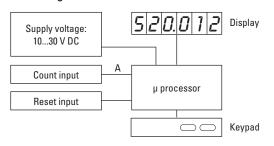


Piece-counting

Number of cuts

Piece-counting on conveyor

Block diagram



Terminal assignment

1	2	3	4	5

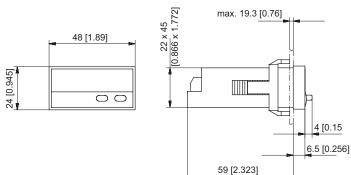
PIN	without optocoupler
1	10 30 V DC
2	0 V GND
3	INP
4	_
5	Reset

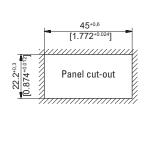


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Dimensions

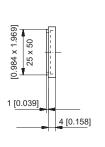
Dimensions in mm [inch]

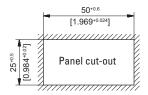




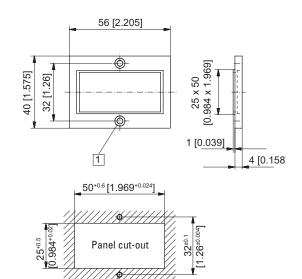
Front bezel for clip mounting (included in delivery)

53 [2.087]





Front bezel for screw mounting (included in delivery)



1 Countersinking Af3, DIN 74