

LED pulse counters	Adding (DC)	Codix 520
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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.



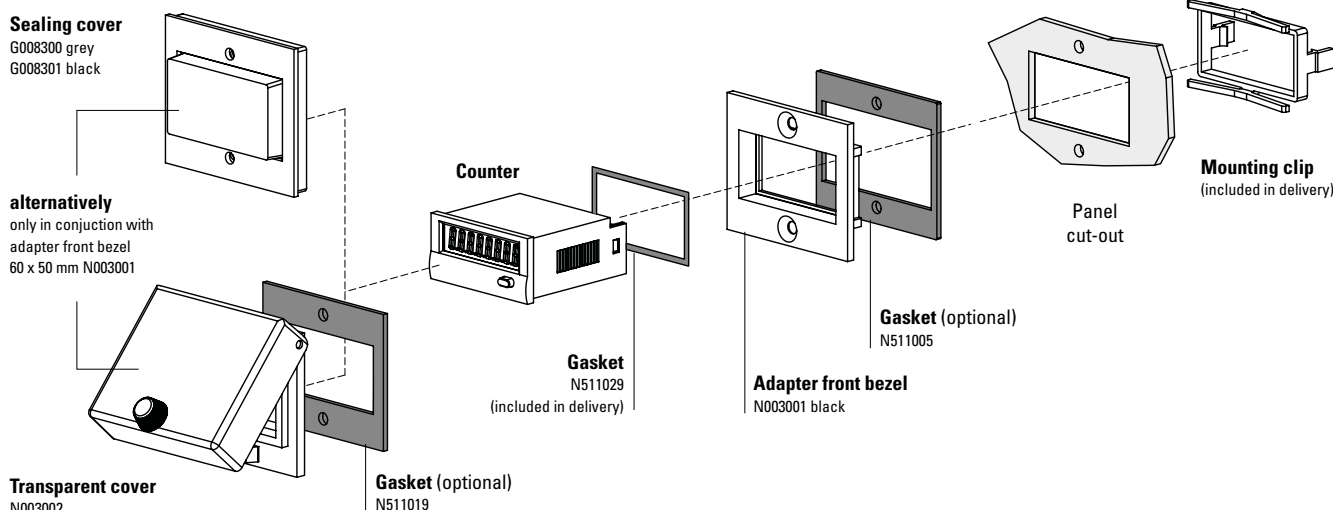
 DC 10 ... 30 V Supply voltage	 DIN 48x24 DIN front bezel	 -20°... +65°C Temperature range	 IP65 High protection level	 Prog Menu-driven programming	 Gloves Operation with gloves	 PNP/NPN Input type	 max. 60 kHz Pulse counter/Totalizer
Powerful - Fast count input – input frequency max. 60 kHz. - Robust 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	6.520 . 012 . 3X0	
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	Stock types 6.520.012.300

Pulse counters, electronic

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Accessories / Mounting examples



		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"]	black anthracite	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 conjunction 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 conjunction 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	—

incl. in delivery

Pulse counters, electronic

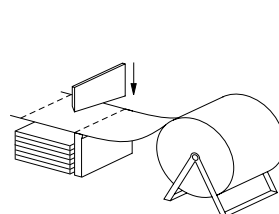
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Technical data

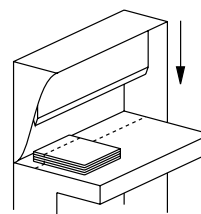
General technical data	
Display	6 digits, red 7 segment LED display; 8 mm [0.32"] high
Data backup	EEPROM
Operating temperature	10 ... 26 V DC -20 °C ... +65 °C [-4 °F ... +149 °F] > 26 ... 30 V DC -20 °C ... +55 °C [-4 °F ... +131 °F] (non-condensing)
Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]
Electrical characteristics	
Supply voltage	10 ... 30 V DC, with integrated reverse polarity protection
Current consumption	max. 45 mA
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
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)	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
Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	EMC Directive 2014/30/EU RoHS Directive 2011/65/EU

Applications for pulse counters / totalizers

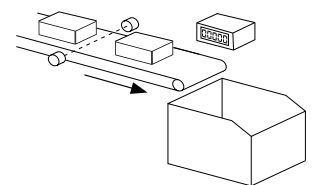
- Simple count tasks such as quantity and piece counting
- Accessories, OEM equipment or retrofitting to production machines
- Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pick-and-place machines, guillotines, special-purpose vehicles etc.



Piece-counting

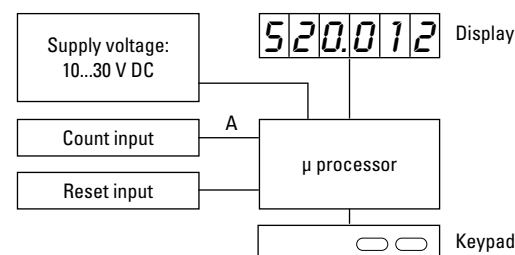


Number of cuts



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

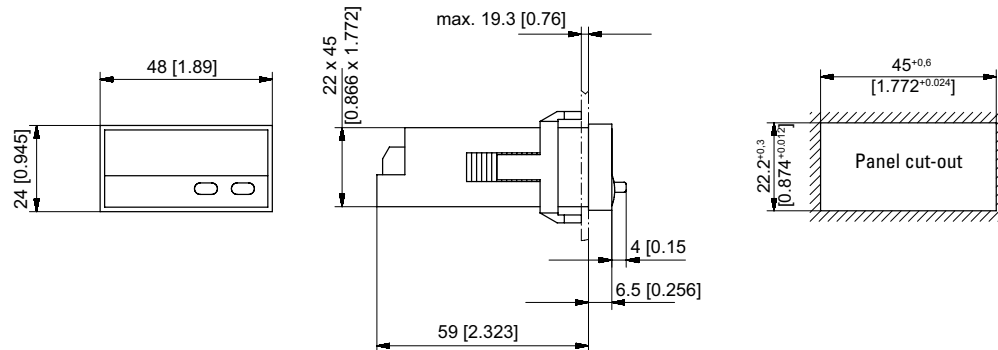
LED pulse counters

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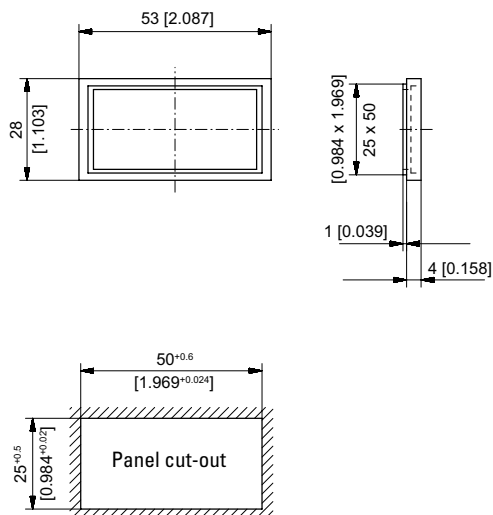
Codix 520

Dimensions

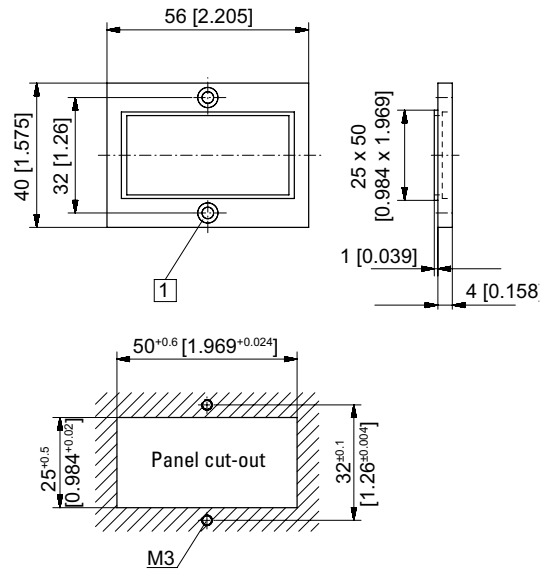
Dimensions in mm [inch]



Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



① Countersinking Af3, DIN 74