

Pulse counters, electronic

LED pulse counters

Adding (AC+DC)

Codix 540



The Codix 540 is a simple voltage powered pulse counter for fast and slow count pulses, with 6-digit LED display for NPN, PNP input signals.

























Pulse counter/

Supply voltage

DIN front bezel

Temperature

High protection

Totalizer

Powerful

- · Fast count input input frequency max. 60 kHz
- Robust housing IP65 protected
- · Very bright LED display, 14 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 and universal

- 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
- · AC or DC supply voltage with sensor supply voltage
- · 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 6.540 . 012 |X|X|0**a b**

Supply voltage

0 = 100 ... 240 V AC, ±10 %

3 = 10 ... 30 V DC

b Input switching level

0 = Standard (HTL)

A = 4 ... 30 V DC

Delivery specification

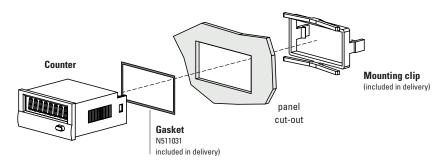
- · Digital display
- Mounting clip
- Gasket
- · Instruction manual, multilingual
- · 2 screw terminals



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Accessories / Mounting examples



		Type / size	Description		Order no.	
Gasket counter			96 x 49 mm [3.78 x 1.93"]		N511031	
Mounting frame	123458	cut-out 92 x 45 mm [3.62 x 1.77"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	grey	G300005	-
Screw terminal (Replacement part)			1 7, pitch 3.81 1 2, pitch 5.08	7 pin 2 pin	N100387 N100133	

incl. in delivery

Technical data

General technical data	
Display	6 digit, red 7 segment
	LED display; 14 mm [0.55"] high
Data backup	EEPROM
Operating temperature	-20 °C +65 °C [-4 °F +149 °F]
	(non-condensing)
Storage temperature	-25 °C +70 °C [-13 °F +158 °F]
Relative humidity	< 85 % (non-condensing)
at +30 °C [+86 °F]	
Altitude	up to 2000 m [6562']

Electrical characteristics			
Supply voltage		1030 VDC, with reverse polarity protection 100240 V AC, ±10 %	
Current consumption		max. 50 mA, 8 VA	
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2	

Mechanical characteristics		
Housing	front panel mount 96 x 48 mm [3.74 x 1.89"] acc. to DIN 43700; RAL 7021, dark grey	
Protection	IP65 (front side)	
Weight	approx. 150 g [5.29 oz]	

Inputs			
Polarity of inputs		programmable, NPN or PNP for all inputs	
Input resistance		approx. 5 kΩ	
Counting frequency 1)		max. 60 kHz, can be damped to 30 Hz	
Minimum pulse duration of the		5 ms	
reset input			
Input switching level standard version (HTL)			
DC supply voltage	LOW	0 0.2 x U _B (V DC)	
	HIGH	0.6 x U _B 30 V DC	
AC supply voltage	LOW	0 4 V DC	
	HIGH	12 30 V DC	
Input switching level at 4 30 V DC			
	LOW	0 2 V DC	
	HIGH	4 30 V DC	

Outputs	
Voltage output for sensors (AC version)	24 V DC ±15 %/100 mA

Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with EMC Directive RoHS Directive Low Voltage Directive	2014/30/EU 2011/65/EU 2014/35/EU

¹⁾ For further specifications please refer to the manual.

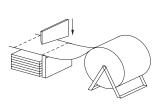


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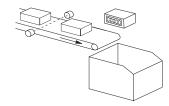
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Applications for pulse counters / totalizers

- Simple count tasks such as quantity and piece counting
- Accessories, 0EM 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.





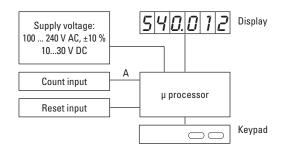


Piece-counting

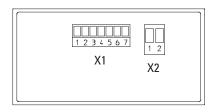
Number of cuts

Piece-counting on conveyor

Block diagram



Terminal assignment



Connection X1

PIN	AC version	DC version
1	n.c	
2	n.c	
3	Reset	
4	n.c	
5	INP	
6	GND out	n.c.
7	+24 V DC out	n.c.

Connection X2

PIN	AC version	DC version
1	100 240 V AC, ±10 %	OVDC (GND)
2	100 240 V AC, ±10 %	1030 V DC

Dimensions

Dimensions in mm [inch]

