

Pulse counters, electronic

LED pulse counters	Adding (AC+DC)	Codix 540
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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.



DC 10 ... 30V	AC 100 ... 240 V	 DIN 48 x 96	 - 20° + 65°	 IP65	 Plug-in screw terminal	 Menu-driven programming	 Operation with gloves	 max. 60 kHz	 PNP/NPN
Power supply		DIN front bezel	Temperature range	High protection level				Pulse counter/Totaliser	Input type

Powerful

- Fast count input – input frequency max. 60 kHz
- Robust housing – IP65 protected
- Very bright LED display, 14 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 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 power supply with sensor power supply
- 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 . XX0
a b

a Power supply

0 = 100 ... 240 V AC, ± 10% ¹⁾
3 = 10 ... 30 V DC ¹⁾

b Input switching level

0 = Standard (HTL) ¹⁾
A = 4 ... 30 V DC

Delivery specification

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

Replacement parts

7 pin screw terminal RM 3.81 1 ... 7: N100387
2 pin screw terminal RM 5.08 1 ... 2: N100133

Accessories	Dimensions in mm [inch]	Order-No.
Mounting frame with cut-out 92 x 45 [3.62 x 1.77]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 96 x 48 [3.74 x 1.89]	grey G300005

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.

1) Stock types

Pulse counters, electronic

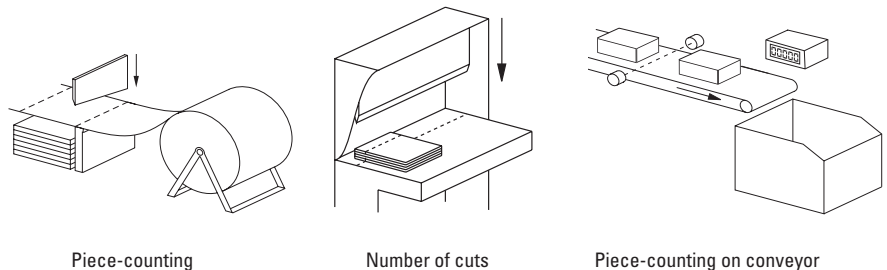
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Technical data

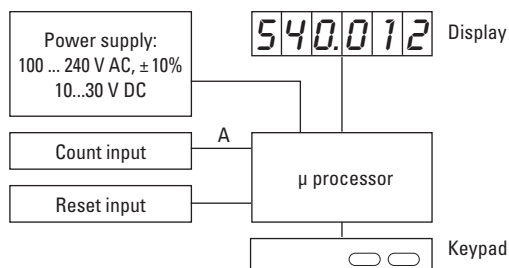
General technical data		
Display	6 digit, red 7 segment LED display; 14 mm [0.55"] high	
Data backup	EEPROM	
Operating temperature	-20°C ... +60°C [-4°F ... +140°F] (non-condensing)	
Storage temperature	-20°C ... +70°C [-4°F ... +158°F]	
Altitude	up to 2000 m [6562']	
Electrical characteristics		
Power supply	10...30 V DC, with reverse polarity protection 100 ... 240 V AC, ± 10%	
Current consumption	max. 50 mA, 6 VA	
EMC	Emitted interference	EN 55011 class B
	Immunity to interference	EN 61000-6-2
Device safety	Designed to	EN 61010 part 1
	Protection class	2
	Application area	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 reset input	5 ms	
Input switching level standard version (HTL)		
DC power supply	LOW	0 ... 0.2 x U _B (V DC)
	HIGH	0.6 x U _B ... 30 V DC
AC power supply	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	

Applications for pulse counters / totalisers

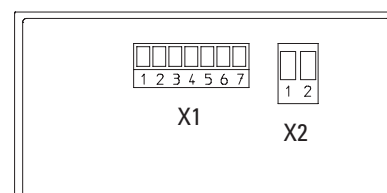
- Simple count tasks such as quantity and piece counting
- Accessories, OEM equipment or retrofitting to production machines
- Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pick-and-place machines, guillotines, special-purpose vehicles etc.



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%	0VDC (GND)
2	100 ... 240 V AC, ± 10%	10 ... 30 V DC

1) for further specifications please refer to the manual

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Dimensions

Dimensions in mm [inch]

