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.

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

ⓐ *Power supply*
0 = 100 ... 240 V AC, ± 10% [1]
3 = 10 ... 30 V DC [1]

ⓑ *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.

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
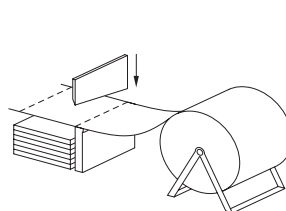Http://www.100y.com.tw

1) Stock types

Pulse counters, electronic

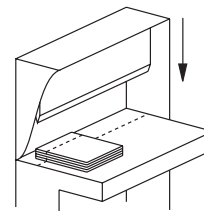| LED pulse counters	Adding (AC+DC)	Codix 540

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

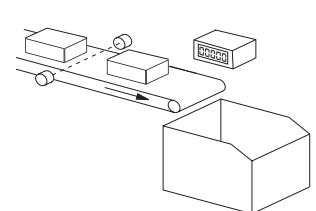### Applications for pulse counters / totalisers

- 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.
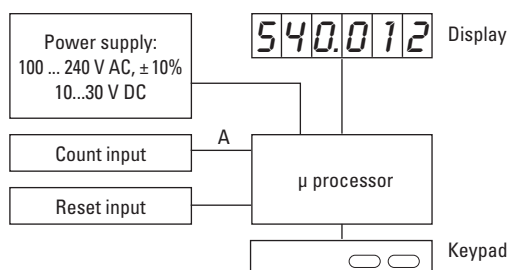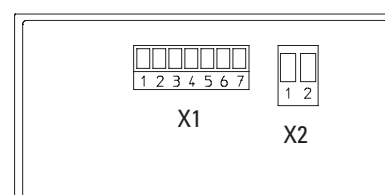
Piece-counting   Number of cuts   Piece-counting on conveyor

Block diagram

Power supply: 100 ... 240 V AC, ± 10% 10...30 V DC

540.012 Display

Count input

A

Reset input

µ processor

Keypad

Terminal assignment

X1   1 2 3 4 5 6 7   X2   1 2

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%	0 V DC (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]

max. 19 [0.748]

96 [3.78]

48 [1.89]

44.9 x 91.9 [1.768 x 3.619]

15.5 [0.61]

4 [0.158]

6.5 [0.256]

67.1 [2.642]

45$^{+0.6}$ [1.772$^{+0.024}$]

Panel cut-out

92$^{+0.8}$ [3.622$^{+0.032}$]