

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.





















Power supply

DIN front bezel

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inal

programming

with gloves

Pulse counter/ Totalizer

Input type

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 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 | . | X | X | 0

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

b Input switching level 0 = Standard (HTL) 1)

 $A = 4 \dots 30 V DC$

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.



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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 +65°C [-4°F +149°F] (non-condensing)	
Storage temperature	-25°C +70°C [-13°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 standards		EN 55011 class B, EN 61000-6-2, EN 61000-6-3	
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2	
UL approval		file E128604	

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]	

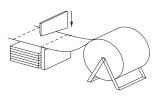
Inputs		
Polarity of inputs		programmable, NPN or PNP
		for all inputs
Input resistance		approx. $5 \text{k}\Omega$
Counting frequency 1)		max. 60 kHz, can be damped to 30 Hz
Minimum pulse duration of the		5 ms
reset input		
Input switching level standard version (HTL)		
DC power supply	LOW	0 0.2 x U _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

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

HIGH 4 ... 30 V DC

Applications for pulse counters / totalizers

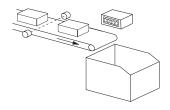
- Simple count tasks such as quantity and piece counting
- Accessories, OEM equipment or retrofitting to production machines
- Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pickand-place machines, guillotines, special-purpose vehicles etc.



Piece-counting

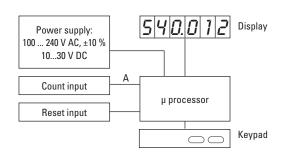


Number of cuts

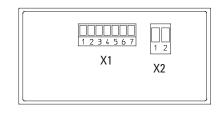


Piece-counting on conveyor

Block diagram



Terminal assignment



Connection X1

PIN	AC version	DC version	
1	n.c		
2	n.c		
3	Reset n.c INP		
4			
5			
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	

¹⁾ For further specifications please refer to the manual.



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Dimensions

Dimensions in mm [inch]

