

LED Pulse Counters – Codix 540

- Simple programmable pulse counter
- Single channel totaliser



Power supply
AC/DC



Front bezel
dimensions



Wide temper-
ature range



High IP
protection
rating



Plug-in screw
terminal



Menu-driven
programming



Operation
with gloves



Input type



Pulse counter/
Totaliser

Powerful

- **Fast count input**
Input frequency max. 60 kHz
- **Robust housing**
IP 65 protection
- **LED display**
Very bright, 14 mm high
- **Simple totalizing and quantity counters**
Single channel count input and reset input
Programmable for positive (PNP) or negative (NPN) switching input pulses
Fast count input with an input frequency of max. 60 kHz, can be damped to 30 Hz for mechanical contacts
- **Fast start-up time**
Detects incoming pulses just 16 ms after being switched on → so no pulses are lost with a simultaneous motor start-up



User-friendly

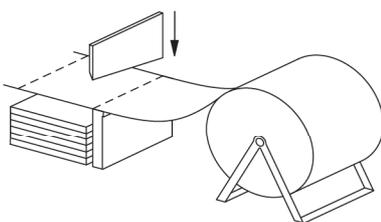
- **Big keys**
Can also be operated when using gloves
- **Easy to programme**
Easy menu-driven programming and operation
Possibility to enter the programming mode during operation, with authentication query

Universal

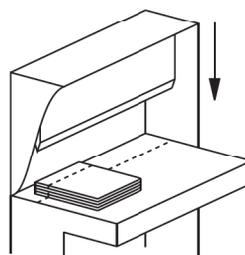
- **Programmable decimal point**
Can be set between 0.0 and 0.000
- **Manual or electrical reset**
Tamper-proof, due to lockable reset function
- **AC or DC power supply**
With sensor power supply
- **Inputs**
As an alternative to the HTL inputs, devices with a 4 ... 30 V DC input level are available, for use as parallel displays for PLCs

Applications for Pulse Counters/ Totalisers

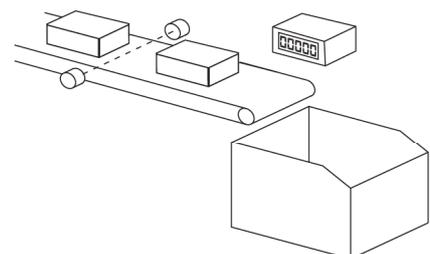
- Simple count tasks such as quantity and piece counting
- Accessories, OEM equipment or retrofitting to production machines
- Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pick-and-place machines, guillotines, special-purpose vehicles etc.



Piece-counting



Number of cuts



Piece-counting on conveyor

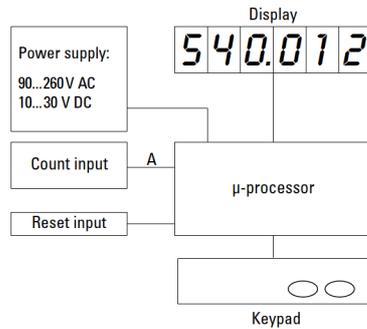
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Technical data:

Supply voltage(U_B):	10 ... 30 V DC, with reverse polarity protection 90 ... 260 V AC
Current consumption:	max. 50 mA, 6 VA
Display:	6-digit red 7-segment LED display; 14 mm [0.551"] high
Data backup:	EEPROM
Housing:	dimension 96 x 48 mm [3.78 x 1.89"] according to DIN 43 700; RAL 7021, grey
Polarity of Inputs:	programmable, npn or pnp for all inputs
Input resistance:	approx. 5k Ω
Counting frequency*:	max. 60 kHz, can be damped to 30 Hz, depending on operating mode
Reset time:	5 ms
Ambient temperature:	-20 ... +65 °C [-4 °F ... 149 °F] non-condensing
Storage temperature:	-25 ... +70 °C [-13 °F ... 158 °F]
Altitude	up to 2000 m

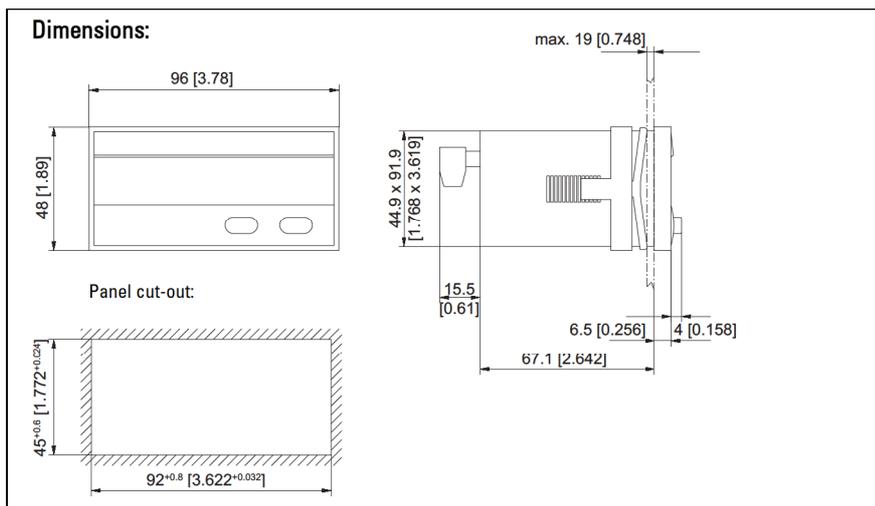
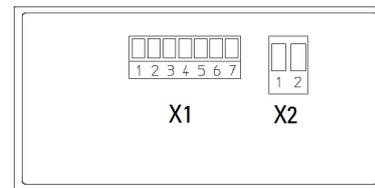
Input switching level (standard version):	DC-version:	
	low: 0 ... 0.2 [0 ... 0.008"] x U_B [V DC]	
	high: 0.6 [0.024"] x U_B ... 30 V DC	
	AC-version	
	low 0 ... 4 V DC	
	high 12 ... 30 V DC	
Input switching level 4 ... 30 V DC version:	low 0 ... 2 V DC	
	high 4 ... 30 V DC	
Voltage output for sensors:	24 V DC \pm 15 %/100 mA for AC-version	
EMC:	Emitted interference	EN55011 Class B
	Immunity to interference:	EN61000-6-2
Device safety:	design to:	EN61010 Part 1
	protection:	Class 2
	application area:	Soiling Level 2
Protection:	IP 65 front side	
Weight:	approx. 150 g [5.291 oz]	

Block diagram:



*for further specifications please refer to the manual

Connections:



Connection: X2

Pin	AC-version	DC-version
1	90 ... 260 V AC	0 V DC (GND)
2	90 ... 260 V AC	10 ... 30 V DC

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 Vout	n.c.

Delivery specification:

Digital display	Multilingual operating instructions
Mounting clip	
Gasket	
2 screw terminals	

Order code:

6.540.012.XX0

Input switching level
0 = Standard level*
A = 4 ... 30 V DC level

Voltage supply
0 = 90 ... 260 V AC*
3 = 10 ... 30 V DC*

*standard stock model

Replacement parts:

7-pin screw terminal
2-pin screw terminal

RM 3,81 1 ... 7: N100387
RM 5,08 1 ... 2: N100133