Pulse counters, electronic

LED pulse counters

Adding (AC+DC)

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.

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

<table>
<thead>
<tr>
<th>Power supply</th>
<th>0 = 90 ... 260 V AC 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 = 10 ... 30 V DC 1)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input switching level</th>
<th>0 = Standard (HTL) 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 4 ... 30 V DC</td>
<td></td>
</tr>
</tbody>
</table>

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

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]

Order-No. 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

### 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 90 ... 260 V AC
- **Current consumption**: max. 50 mA, 6 VA
- **EMC**: EN 55011 class B
- **Device safety**: Designed to EN 61010 part 1
- **Protection**: IP65 (front side)

#### 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]

### 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

![Block diagram](image)

#### Terminal assignment

**Connection X1**

<table>
<thead>
<tr>
<th>PIN</th>
<th>AC version</th>
<th>DC version</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>n.c</td>
<td>n.c</td>
</tr>
<tr>
<td>2</td>
<td>n.c</td>
<td>n.c</td>
</tr>
<tr>
<td>3</td>
<td>Reset</td>
<td>n.c</td>
</tr>
<tr>
<td>4</td>
<td>n.c</td>
<td>n.c</td>
</tr>
<tr>
<td>5</td>
<td>INP</td>
<td>n.c</td>
</tr>
<tr>
<td>6</td>
<td>GND out</td>
<td>n.c</td>
</tr>
<tr>
<td>7</td>
<td>+24 V DC out</td>
<td>n.c.</td>
</tr>
</tbody>
</table>

**Connection X2**

<table>
<thead>
<tr>
<th>PIN</th>
<th>AC version</th>
<th>DC version</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90 ... 260 V AC</td>
<td>0 V DC (GND)</td>
</tr>
<tr>
<td>2</td>
<td>90 ... 260 V AC</td>
<td>10 ... 30 V DC</td>
</tr>
</tbody>
</table>

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1) for further specifications please refer to the manual

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LED pulse counters  Adding (AC+DC)  Codix 540

Dimensions
Dimensions in mm [inch]

max. 19 [0.748]
92 [3.622]

48 [1.89]
96 [3.78]

44.9 x 91.9
1.768 x 3.619

Panel cut-out

45+0.6 [1.772+0.024]
92+0.8 [3.622+0.032]

45 [1.771]

35.6 [1.403]

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