**Series PD2-T56 (2A)**

*with clock input*

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**Stepper motor with integrated Constant Current-Driver 2A/Phase**

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**Technical Data:**

- **Operating Current:** DC 21 to 37 V
- **max. Phase Current:** 2 A / phase
- **Resolution:** 200, 400, 800, 1/8 = 1600 (3200) Steps/rev.
- **Step mode setting:** via BCD-switch
- **Step frequency:** 0 to 50 kHz
- **Current down:** automatically to approx. 65%
- **Input signals:** via optocoupler 5V (24V), diode input
- **Protective circuit:** overvoltage and heat sink temp. > 80°C
- **Temperature range:** 0 to +40 °C
- **Connection type:** via 5-pin circular connectors
- **State of delivery:** 1/2 step

**Attention:**

A charging capacitor of at least 4.700 µF has to be provided in the supply voltage so that the permissible voltage is not exceeded during the braking process.

**PC-connection:** Use diode input, if you control the motor via PC!

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**PIN Assignment**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>brown = DIR (Direction)</td>
</tr>
<tr>
<td>2</td>
<td>white = GND (signal ground)</td>
</tr>
<tr>
<td>3</td>
<td>blue = 0V</td>
</tr>
<tr>
<td>4</td>
<td>black = DC +21 to +37 V</td>
</tr>
<tr>
<td>5</td>
<td>grey = CLK (Clock)</td>
</tr>
</tbody>
</table>

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**Input circuit**

- **Optocoupler**
  - (5V = standard; 24V = option)
  - **Diode input**
    - (for direct control via PC)

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**Ordering code:** PD2-T5618X2004-

- **Input circuit:**
  - 5 = 5 V (optocoupler)
  - 24 = 24 V (optocoupler)
  - D = diode input

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**Dimensions**

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**Required Accessories**

- 5-pin connecting cable or cable loom KS-PD56-2 (5)

(see "Accessories", page K6)