Penny+Giles Endless Belt controller provides a compact relative-level device which delivers an optically derived digital output. The continuous belt design offers a precise, tactile interface for incremental control and provides designers of automation systems with a cost-effective ergonomic solution.

- optical incremental encoder
- quadrature output waveforms
- built-in display
- smooth, tactile feel
- noise free operation
- robust and durable
- light and compact
- assignable controller

### ENDLESS BELT DIGITAL CONTROLLER

**Stroke length**  
100mm

**LED’s (red as standard)**  
Fitted

**Belt colour**  
Translucent grey

### Dimensions

- LED 1 to LED 20: 19.9 mm
- 158 mm
- 151 mm
- 143 mm
- 42.4 mm
- 3.0 mm

- 5.5 mm

**Suitable for panel thicknesses from 1mm - 3mm.**

- 3.20 diameter holes required in panel for location of body

- All dimensions shown in mm

### Circuit diagrams/Terminations

**LED display**

- LED 1 to LED 20

**Quadrature waveform**

- Over 256 counts per 100mm of travel
- Quadrature outputs, Schmitt TTL levels

<table>
<thead>
<tr>
<th>Channels</th>
<th>90° Phase dif.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>5V ±10%</td>
</tr>
<tr>
<td>Supply current</td>
<td>30mA max</td>
</tr>
<tr>
<td>20 red LED’s</td>
<td>20mA max. continuous</td>
</tr>
</tbody>
</table>

### TO ORDER OR OBTAIN A QUOTATION

Please contact your nearest sales office and advise:

- The series number and description, LED’s required and belt colour.
- Penny+Giles would code this controller as:

<table>
<thead>
<tr>
<th>Controller type</th>
<th>PGF7000</th>
<th>series</th>
<th>stroke</th>
<th>LED’s</th>
<th>belt colour</th>
</tr>
</thead>
</table>

Data Number P61799/3