The Penny+Giles PGFM3200 linear motorised fader is designed to provide a servo output with integral touch sense pathway.

Built around the proven technology of the PGF3000 manual fader, the PGFM3200 is available with a choice of cored or coreless motors for a motorised fader which offers excellent performance.

- 100mm stroke length
- choice of cored or coreless motor
- touch sense pathway
- linear servo output
- M3 mounting threads
**SPECIFICATION AND MOTOR OPTIONS**

- **Stroke length**: 100
- **Output law**: Servo
- **Output channels**: Servo only
- **Fader type**: PGFM3
- **Resistance ±20%**: 10kΩ
- **Mounting threads**: M3
- **Motor**: Coreless

**SAFETY WARNING**

- **50Vdc maximum voltage**
- The PGFM3200 is designed for operation at low voltages not exceeding 50Vdc

**MOTOR DATA**

- **Coreless**
  - Motor supply: Vdc 12 nominal
- **Cored**
  - Motor supply: Vdc 5 - 11.5 (8 nominal)

It is important that the fader slider is NOT driven against the end stops.

**DIMENSIONS**

All dimensions shown in mm

- **150 length**
- **120 mounting centres**
- **20 tooth drive pulley**
- **100% V 107.43 servo element nom.**
- **0% V 100 mechanical stroke nom.**
- **Mtg. screw M3 x 3.0mm + panel thickness**
- **Recommended tightening torque 0.45Nm**
- **Bracket height 7.1 max**
- **Bracket height 4.1 max**
- **Mounting to datum E 9.5 max**
- **Bracket height 17 max**

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CIRCUIT DIAGRAMS/TERMINATIONS

<table>
<thead>
<tr>
<th>Pin</th>
<th>Colour</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Grey</td>
<td>Touch sense</td>
</tr>
<tr>
<td>2</td>
<td>Blue</td>
<td>0%V</td>
</tr>
<tr>
<td>3</td>
<td>Yellow</td>
<td>Wiper</td>
</tr>
<tr>
<td>4</td>
<td>Red</td>
<td>100%V</td>
</tr>
<tr>
<td>5</td>
<td>Black</td>
<td>Motor -ve</td>
</tr>
<tr>
<td>6</td>
<td>Red</td>
<td>Motor +ve</td>
</tr>
</tbody>
</table>

Motor

Yellow 100%V
Blue 0%V
Grey BlackRed

A P+G 11mm satin finish chrome knob is available to purchase separately.

TO ORDER OR OBTAIN A QUOTATION PLEASE CONTACT YOUR NEAREST SALES OFFICE AND ADVISE:

- The series number and description
- The stroke length
- The output law
- The output channel
- The resistance
- The fixing threads
- The bracket height
- The motor type

For example: PGFM3200 linear motorised fader, 100mm stroke, one channel servo, 10kΩ resistance, M3 mounting inserts, 4.1mm bracket height, coreless motor. Penny+Giles would code this fader as:

SERVO DETAILS

Long servo

The electrical length of the servo track is longer than the mechanical stroke of the fader so that 0%V and 100%V are never achieved. The long servo is standard on the PGFM3200 motorised fader series. For other servo options, contact your nearest Penny+Giles sales office to discuss your requirements and availability.

FADER KNOB OPTION

Cable type 7 x 0.15mm PVC insulated 130mm long
Connector AMP CST-100 6 way (770602-6) with tin coated crimp terminals (770666-1)
Penny & Giles
Faders and controllers, position sensors, joysticks and solenoids for commercial and industrial applications.

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