

Penny+Giles PGF3000 Series faders offer the ultimate in performance having been designed for demanding professional applications.

They incorporate conductive plastic tracks, precious metal contacts, environmental shielding, and are available in a choice of stroke lengths from 45mm to 104mm.

• multiple stroke lengths

• compact size

- track switches
- microswitches
- single or dual channels
- linear, audio log or VCA outputs

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PGF3000 SERIES

PGF3000 linear manual fader



SELECT THE FADER OPTIONS YOU REQUIRE

М3

Stroke length	4 5	65	70 5	83 ⁶ 104 ²
Output law	Log audio	taper ²	Linear	1 VCA 6
Output channels	One 0	Two 2		
Fader type	series PGF3	stroke	law	channels
Please enter the codes for	your first three	e options. This w	ill identify the	fader data shown opposite.
Resistance ±20%	1k Ω	5k Ω	10k Ω D	VCA2k7 Ω

Safety warning

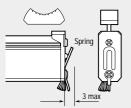
Mounting threads

50Vdc maximum voltage

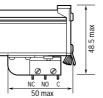
4-40 UNC

The PGF3000 is designed for operation at voltages not exceeding 50Vdc

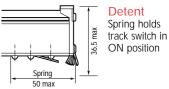
SWITCH OPTIONS



Pre-fade listen The switch operates before the active track is reached. This is at the infinity end of the fader and is always under spring load. Spring returns switch to off when knob is released.



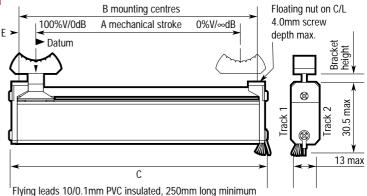
Fader start/Auxiliary The switch operates within 4mm from the mechanical stop at the infinity end of the fader and can be microswitch or track switch based. Microswitch illustrated.



Note: For external microswitch Pre-fade listen option refer to those dimensions given under Fader start/Auxiliary added to that given under Pre-fade listen.

Internal pre-fade listen track switch (2mA max)	0	
1st internal track switch (2mA max) fader start/auxiliary	S	
2nd internal track switch (2mA max) fader start/auxiliary	- S	
External microswitch (100mA max) fader start/auxiliary 1 off	A -	
External microswitch (100mA max) fader start/auxiliary 2 off	B -	
External microswitch (100mA max) pre fade listen (see note)	0 -	
Detent switch actuator and spring	D	
Non-detent switch actuating slider (standard option)	X	Only one option per column
Detent switch actuating slider		can be selected

DIMENSIONS A	ND K	NOB E	BRACK	ET OPTIC	ONS	
All dimensions show	wn in r	nm				
Stroke length	А	45	65	70	83	104
Mounting centres	В	61	80	101.6	101.6	120
Length	С	74	93	114.6	114.6	133
Mounting to datum	Е	8.0	7.5	15.8	9.3	8.0
Bracket height	4.	1 ^A	5.3	B 6.6	5 ^C 8	8.5



Log audio taper

Maximum insertion loss 1.0dB. Typical input related crosstalk 100dB

Туре	Accuracy	Matching accuracy for stereo option (relative to track 1)	Cut off
3420 3422	±2.0dB (0-20)	- ±3.0dB (0-20)	80dB
3020 3022	±2.0dB (0-30)	– ±2.0dB (0-30)	85dB
3520 3522 3620 3622	±2.0dB (0-30)	_ ±2.0dB (0-20) _ ±2.0dB (0-20)	95dB
3220 3222	±1.0dB (0-20) ±2.0dB (21-40)	- ±1.0dB (0-40)	100dB

Linear

Туре

3410

3412

3010

3012

3510 3512

3610

3612 3210 3212

Maximum end volts 0.1%

Accuracy

±3.0%

±2.0%

VCA

Matching accuracy

(relative to track 1)

 $\pm 5.0\%$

_

 $\pm 5.0\%$

 $\pm 5.0\%$

±2.0%

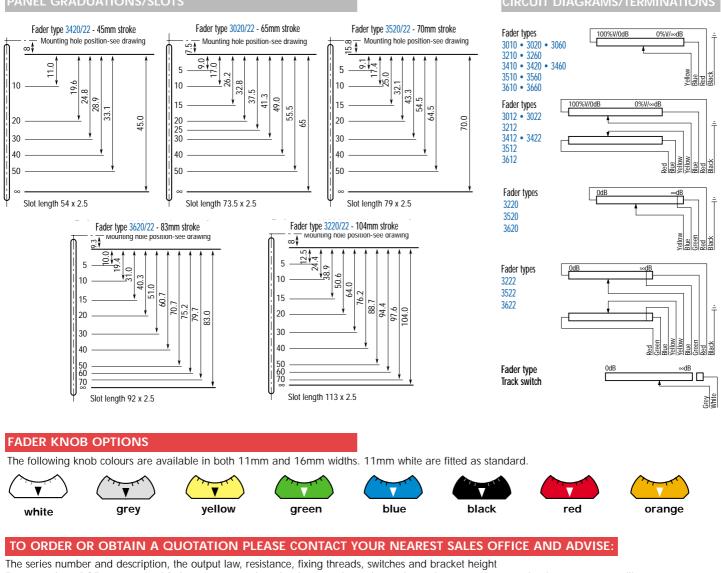
 $\pm 2.0\%$

Refer to Penny+Giles for laws other than standard.

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Туре	Slider travel (mm)	% Output	% Tolerance									
3260	0	100	-0.1									
	12.5	95	±2.0									
	24.4	90	±2.0									
	38.9	85	±2.0									
	50.6	80	±2.0									
	64.0	70	±3.0									
	76.2	60	±3.0									
	88.7	50	±3.0									
	94.4	40	±5.0									
	100.1	30	-									
	104.0	0	+0.1									

Note: The ratio of fader resistance to wiper load should be 100:1 or higher.

Test conditions: • wiper load 100k Ω log only • element resistance 10k Ω • frequency for cut-off 15kHz • frequency for law accuracy 1kHz • insulation resistance 20M Ω at 50Vdc



For example: • PGF3000 manual fader • 45mm stroke • log law • 2 channels • $10k\Omega$ resistance • M3 mounting inserts • one auxiliary microswitch, non-detent switch actuating slider • 4.1mm knob bracket height. Penny+Giles would code this fader as:

	series	stroke	law	channels		esistanc	<u>ل</u>	inserts			swite	hes			bracket
Fader type	PGF3	4	2	2	/	D	1	М	1	-	-	Α	-	1	Α



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Penny & Giles

Faders and controllers, position sensors, joysticks and solenoids for commercial and industrial applications.

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Quality Approvals



Penny+Giles are accredited to BS EN ISO 9001:2008 Quality is at the heart of all our systems ensuring the reliability of our products from initial design to final despatch.

Certificate No. LRO 0924881

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EMC Directive 2004/108/EEC

The products detailed in this document are supplied as components for installation into an electrical apparatus or system. They are outside the scope of the EEC directive and will not be CE marked.

The information contained in this brochure on product applications should be used by customers for guidance only.

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