1-800-633-0405

GEFRAN BEYOND TECHNOLOGY With Cylindrical Case



Features

- Half-inch-diameter cylindrical housing
- Multiple mounting options (brackets, rod eyes or flange) enhance versatility for a wide range of applications
- Designed for easy installation thanks to an absence of electrical signal variation in output
- Ideal for applications such as wood and glass working, finishing machinery, and car test benches
- All potentiometers are individually tested at the manufacturer, and an individualized Linearity Error Chart is included with each unit

			PZ12 Series	Linear Potentio	meters S	election C	hart		
Part Number	Price	Drawing Link	Useful Electrical Stroke (CEU) mm [in]	Theoretical Electrical Stroke (CET) mm [in]	Resistance (CET)	Mechanical Stroke (CM) mm [in]	Case Length (A) mm [in]	Recommended Distance Between Brackets (B) mm [in]	Minimum Distance Between Rod Eyes (C) mm [in]
PZ12-F-xxxx-L Flang	e Mount Ma	dels							
<u>PZ12-F-0025-L</u>	\$157.00	PDF	25 [0.98]	26 [1.02]	1KΩ	30 [1.18]	74.5 [2.93]	-	-
PZ12-F-0050-L	\$166.00	PDF	50 [1.97]	51 [2.01]	2ΚΩ	55 [2.17]	99.5 [3.92]	-	-
<u>PZ12-F-0075-L</u>	\$171.00	<u>PDF</u>	75 [2.95]	76 [2.99]	3ΚΩ	80 [3.15]	124.5 [4.90]	-	-
<u>PZ12-F-0100-L</u>	\$177.00	PDF	100 [3.94]	101 [3.98]	4ΚΩ	105 [4.13]	149.5 [5.89]	-	-
PZ12-F-0200-L	\$191.00	PDF	200 [7.87]	201 [7.91]	8ΚΩ	205 [8.07]	249.5 [9.82]	-	-
PZ12-A-xxxx-L Rod I	Eyes Mount	Models							
<u>PZ12-A-0025-L</u>	\$215.00	PDF	25 [0.98]	26 [1.02]	1ΚΩ	30 [1.18]	102 [4.02]	-	153 [6.02]
PZ12-A-0050-L	\$279.00	PDF	50 [1.97]	51 [2.01]	2ΚΩ	55 [2.17]	127 [5.00]	-	178 [7.01]
PZ12-A-0075-L	\$285.00	PDF	75 [2.95]	76 [2.99]	3ΚΩ	80 [3.15]	152 [5.98]	-	203 [7.99]
PZ12-A-0100-L	\$290.00	PDF	100 [3.94]	101 [3.98]	4ΚΩ	105 [4.13]	177 [6.97]	-	228 [8.98]
PZ12-A-0200-L	\$304.00	PDF	200 [7.87]	201 [7.91]	8ΚΩ	205 [8.07]	277 [10.91]	-	328 [12.91]
PZ12-S-xxxx-L Clam	p Brackets	Mount Mode	els						
PZ12-S-0025-L	\$166.00	PDF	25 [0.98]	26 [1.02]	1KΩ	30 [1.18]	74.5 [2.93]	42 [1.65]	-
PZ12-S-0050-L	\$183.00	PDF	50 [1.97]	51 [2.01]	2ΚΩ	55 [2.17]	99.5 [3.92]	67 [2.64]	-
PZ12-S-0075-L	\$188.00	PDF	75 [2.95]	76 [2.99]	3ΚΩ	80 [3.15]	124.5 [4.90]	92 [3.62]	_
PZ12-S-0100-L	\$193.00	PDF	100 [3.94]	101 [3.98]	4ΚΩ	105 [4.13]	149.5 [5.89]	117 [4.61]	_
PZ12-S-0200-L	\$209.00	PDF	200 [7.87]	201 [7.91]	8KΩ	205 [8.07]	249.5 [9.82]	217 [8.54]	_

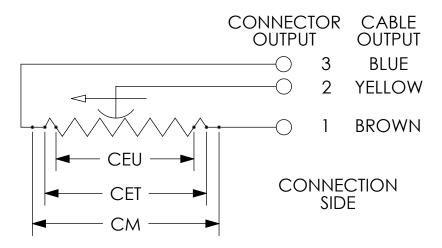


GEFRAN PZ12 Series Linear Potentiometers With Cylindrical Case

PZ12 Series Li	near Potentic	meters Spec	ifications	·		
Model PZ12-x-xxxx-L	0025	0050	0075	0100	0200	
Independent Linearity (Within CEU)	± 0.2%	± 0.1%	± 0.1%	± 0.1%	± 0.05%	
Resolution	Infinite					
Repeatability	-					
Electrical Connections	PVC, 1m [3.28 ft] 3-wire axial cable, 24AWG (0.25 mm²)					
Displacement Speed	Standard ≤ 10 m/s [32.81 ft/s]					
Protection Level	IP60					
Life	> 25x106 strokes or > 100x106 maneuvers, whichever is less (within CEU)					
Displacement Force	≤ 0.5 N					
Vibrations	5-2000 Hz: Amax=0.75 mm [0.03 in], amax=20g					
Shock	50g, 11ms					
Acceleration	-					
Tolerance on Resistance	±20%					
Recommended Cursor Current	< 0.1 µA					
Maximum Cursor Current	10mA					
Maximum Applicable Voltage	20V	40V	60V	60V	60V	
Electrical Isolation	>100MΩ at 500V=, 1bar, 2s					
Dielectric Strength	< 100µA at 500V~, 50Hz, 2s, 1bar					
Dissipation at 40 °C [104 °F] (0W at 120 °C [248 °F])	0.5 W	1W	1.5 W	2W	3W	
Thermal Coefficient of Resistance	-200 to +200 ppm/°C					
Actual Temperature Coefficient of Output Voltage	≤ 1.5 ppm/°C					
Working Temperature	-30 to +100°C [-22 to +212°F]					
Storage Temperature	-50 to +120°C [-58 to 248°F]					
Case Material	Anodized aluminum, Nylon 66					
Shaft Material	Stainless steel AISI 303					
Mounting	Brackets, self-aligning rod eyes, or flange					

1-800-633-0405 **GEFRAN PZ12 Series Linear Potentiometers** BEYOND TECHNOLOGY With Cylindrical Case

Electrical Connections



When choosing a transducer, it is important to remember that three different strokes exist:

• Mechanical Stroke (CM): The actual shift that the transducer's cursor (wiper) is able to make.

• Useful Electrical Stroke (CEU): The part of the mechanical stroke in which transducer linearity is guaranteed.

• Theoretical Electrical Stroke (CET): Stroke expressed in mm or angular degrees between the electrical zero (Vout=0) and the electrical limit switch (Vout=Vs), which physically is equal to the distance between the silver pitches at the ends of the resistive track.

Therefore, when designing an application, you should choose a transducer with a useful electrical stroke that is equal to or greater than the maximum displacement carried out by the moving part.

GEFRAN Linear Potentiometer Accessories

1-800-633-0405

	Connectors For Gefran Linear Potentiometers					
Part Number	Price	Drawing Link	Description	Number of Poles		
<u>CON006-1KJ</u>	\$8.00	PDF	Gefran field wireable connector, 18mm DIN 43650 Form A, 90-degree cable entry, 4-pole. For use with Gefran LT, PK and WPG linear position sensors.	4		
<u>CON008-1KJ</u>	\$8.00	PDF	Gefran field wireable connector, 9.4mm DIN 43650 Form C, 90-degree cable entry, 4-pole. For use with Gefran PC series potentiometers.	4		



Mounting Brackets and Accessories For Gefran Linear Potentiometers				
Part Number	Price	Description		
<u>PKIT009-1KJ</u>	\$12.00	Gefran mounting brackets, for use with Gefran LT Series potentiometers		
<u>PKIT015-1KJ</u>	\$21.50	Gefran rod eye joint accessory, for use with Gefran LT Series potentiometers		
<u>PKIT059-1KJ</u>	\$12.00	Gefran mounting brackets, for use with 100 to 900mm Gefran PK Series potentiometers		
<u>PKIT061-1KJ</u>	\$13.50	Gefran mounting brackets, for use with 1000 to 2000mm Gefran PK Series potentiometers		
<u>STA074-1KJ</u>	\$5.50	Gefran mounting brackets, for use with Gefran PZ12-S Series potentiometers		



PKIT009-1KJ

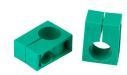


PKIT015-1KJ





PKIT061-1KJ



STA074-1KJ