

LPZ SERIES CYLINDRICAL DISPLACEMENT TRANSDUCER

FEATURES

- ⊙ Excellent linearity
- ⊙ Resolution greater than 0.01mm
- ⊙ High speed operation
- ⊙ Suitable for internal displacement detection in equipment and cavities
- ⊙ IP65 protection rating
- ⊙ Configurable voltage or current (2-wire, 3-wire) modules



INTRODUCTION

The LPZ series displacement transducer / sensor features an 12.7mm cylindrical housing and offers a wide range of fastening options, including brackets and ball-joints, making it highly versatile for various applications. Its optimized mechanical structure enables easy customization for special executions to meet specific needs. Installation is simplified, as the output remains stable with no electrical signal variation outside the theoretical electrical stroke. The LPM series is ideal for use in wood and glassworking machines, finishing equipment, and automotive test benches.

SPECIFICATIONS

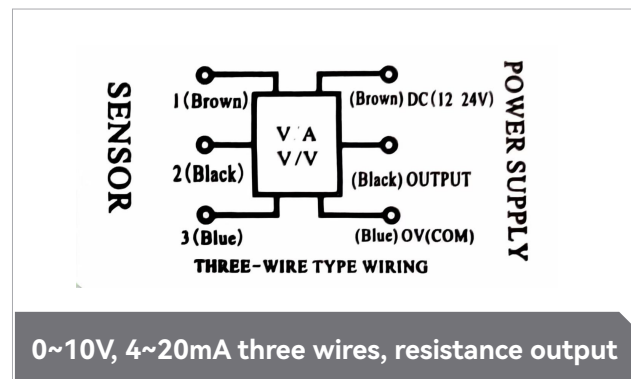
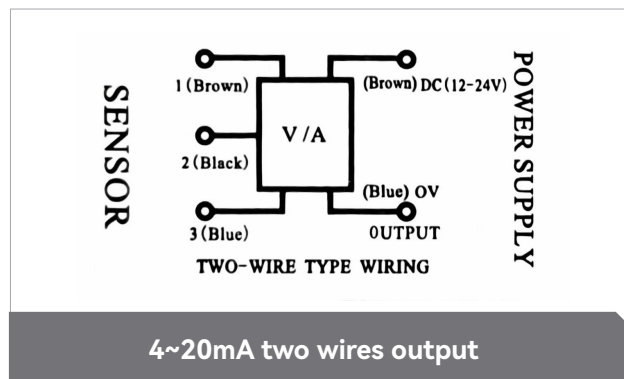
Useful electrical stroke	From 10 to 500mm
Resolution	Infinite
Power supply	15~30VDC
Repeatability	<0.01mm
Displacement speed	<5m/s
Linearity	± 0. 05%
Resistance	1KΩ/5KΩ
Resistance tolerance	± 20%
Load Resistance	Min 100kΩ
Electrical connection	Cable leads
cylindrical housing size	12.7mm
Housing material	Anodized Aluminum

Rod material	Stainless steel
Rod diameter	4mm
Fixing	Brackets, selfaligning ball-joints, Flange
Working Temperature	-60~150°C
Protection	IP67

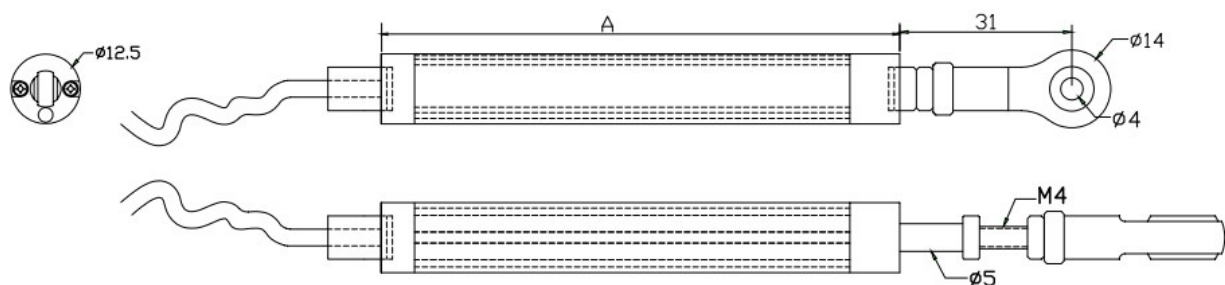
TECHNICAL DATA

Model	10	25	38	50	75	100	150	200	250	300	400	500	Unit
Working Stroke	10	25	38	50	75	100	150	200	250	300	400	500	mm
Electric Stroke	10.5	25.5	38.5	50.5	75.5	100.5	150.5	200.5	25.5	300.5	400.5	500.5	mm
Resistance	5	5	5	5	5	5	5	5	5	5	5	5	KΩ
Linearity	0.3	0.3	0.3	0.03	0.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15	±%

ELECTRICAL CONNECTION



MECHANICAL DIMENSION



ORDER FORMAT

LPZ - D - 50 - C2 - W2

Installation type	Code
Brackets+1 ball joint(Standard)	Null
Two ball joints	D
Flange	F

Stroke	Code
10mm	10
25mm	25
50mm	50
...	...
500mm	500

Cable length	Code
1 meter(Standard)	Null
2 meters	W2
3 meters	W3
3 meters	W3

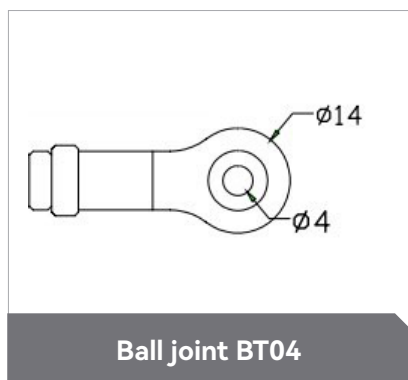
Output signal	Code
Resistance	Null
4~20mA	C2
0~10V	V1
RS485	R4

Example: LPZ-50, 50mm stroke, standard brackets and 1 ball joint installation, standard 1 meter cable leads.

LPZ-50-C2,50mm stroke, 4~20mA output,standard brackets and 1 ball joint installation,standard 1 meter cable leads.

LPZ-D-50-W2,50mm stroke,2 ball joints installation, 2 meters cable leads.

ACCESSORIES



STANDARD ACCESSORIES:

Fixing kit: LPZ: 2 brackets, 2 screws, 1 ball joint

LPZ-D: 2 ball joints