

LPM SERIES CYLINDRICAL DISPLACEMENT TRANSDUCER

FEATURES

- ⊙ Compact size
- ⊙ Long service life, with up to 30 million cycles
- ⊙ Resolution greater than 0.01mm
- ⊙ Ideal for detecting movement positions where the sensor cannot be fixed
- ⊙ IP65 protection rating
- ⊙ High speed operation
- ⊙ Ball-joint allows free movement at large angles ($\pm 12.5^\circ$)
- ⊙ Configurable voltage or current (2-wire, 3-wire) modules



INTRODUCTION

The LPM series displacement transducer / sensor features an 18mm 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

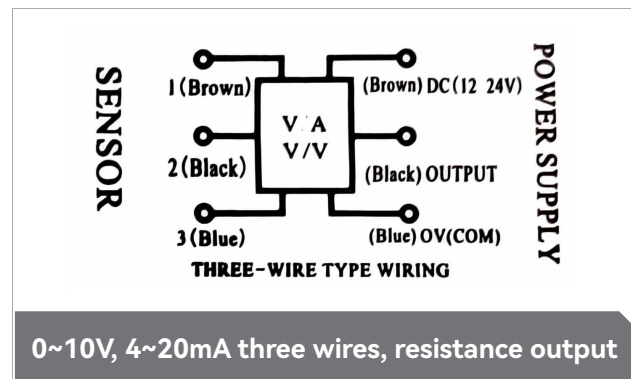
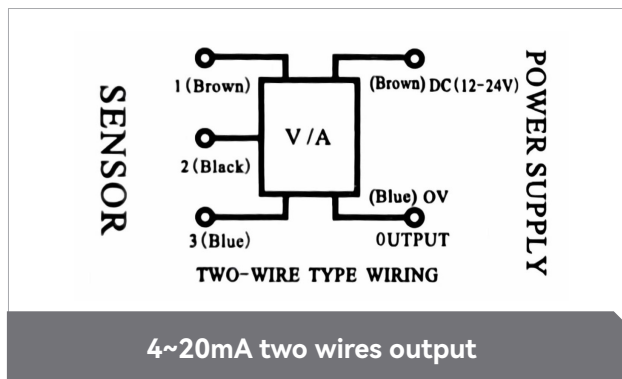
Useful electrical stroke	From 10 to 600mm
Resolution	Infinite
Power supply	28VDC
Repeatability	<0.01mm
Displacement speed	<5m/s
Linearity	$\pm 0.05\%$
Resistance	5 Ω
Electrical connection	1 meter cable leads
cylindrical housing size	18mm
Housing material	Anodized Aluminum
Rod material	Stainless steel

Rod diameter	5mm
Fixing	Selfaligning ball-joints both ends
Working Temperature	-60~150°C
Protection	IP65

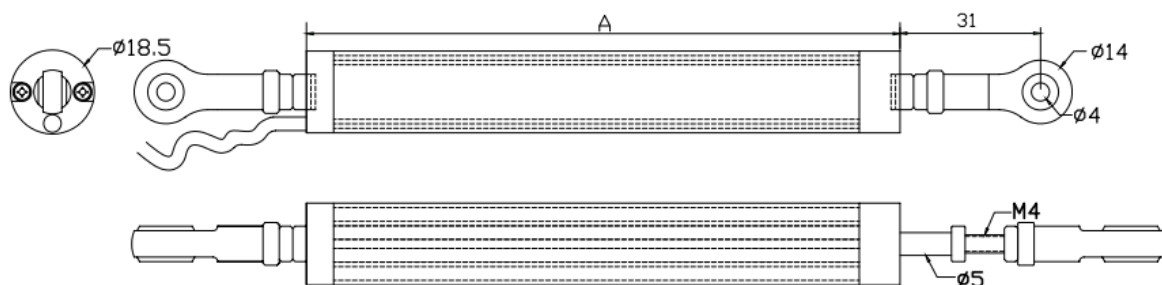
TECHNICAL DATA

Model	25	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	Unit
Working Stroke	25	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	mm
Electric Stroke	25.5	50.5	75.5	101	126	151	176.5	201.5	226.5	252	277	302	352	402	452	502	552	602	mm
Resistance	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	KΩ
Linearity	0.3	0.25	0.1	0.08	0.08	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	±%
Length(A)	79	104	129	154	179	204	229	254	279	304	329	354	404	454	504	554	604	654	±2mm

ELECTRICAL CONNECTION



MECHANICAL DIMENSION



ORDER FORMAT

LPM - 50 - C2 - W2

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

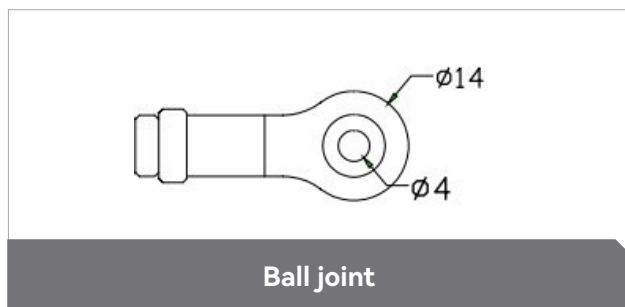
Cable length	Code
1 meter(Standard)	Null
2 meters	W2
3 meters	W3
Others on request	...

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

Example: LPM-50, 50mm stroke, standard 1 meter cable leads.

LPZ-50-C2-W2, 50mm stroke, 4~20mA, 2 meters cable leads.

ACCESSORIES



Code
BT04

STANDARD ACCESSORIES:

Fixing kit: 2 ball joints