

LTC SERIES

LINEAR DISPLACEMENT TRANSDUCER/SENSOR

FEATURES

- ◎ Long service life, with up to 30 million cycles
- ◎ Excellent linearity
- ◎ Resolution greater than 0.01mm
- ◎ High speed operation
- ◎ DIN 43650 standard plug and socket
- ◎ IP65 protection rating
- ◎ Configurable voltage or current (2-wire, 3-wire) modules



INTRODUCTION

The LTC series linear displacement transducers/sensors are universal rod-type sensors with conductive plastic film and an automatic electrical grounding feature. The integrated conductive plastic measurement unit ensures no temperature drift and extends the sensor's lifespan. With a 4mm buffer stroke at both ends, they offer an accuracy range of 0.05% to 0.04% FS. The anodized shell provides corrosion resistance, and the rod's ball head includes a 0.5mm automatic centering function. An optional transmission module is available for either mA or voltage output.

SPECIFICATIONS

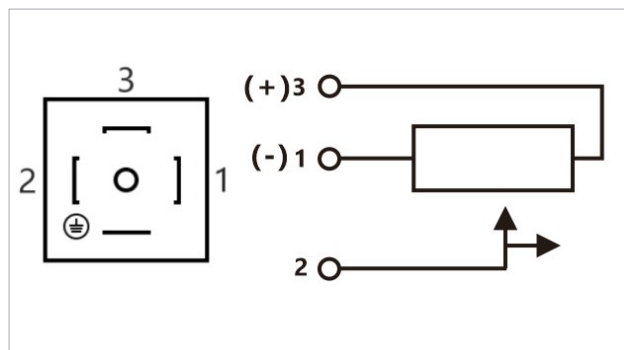
Useful Electrical Stroke	From 50 to 1250mm
Resolution	Infinite
Displacement speed	<5m/s
Linearity	± 0.05%
Resistance	5kΩ/10kΩ/20kΩ
Resistance tolerance	± 20%
Load Resistance	Min 100kΩ
Power supply	15~30VDC
Electrical connection	DIN43650 4PIN
Repeatability	0.01mm
Shell size	32x32mm
Working Temperature	-60~150°C
Protection	IP67

TECHNICAL DATA

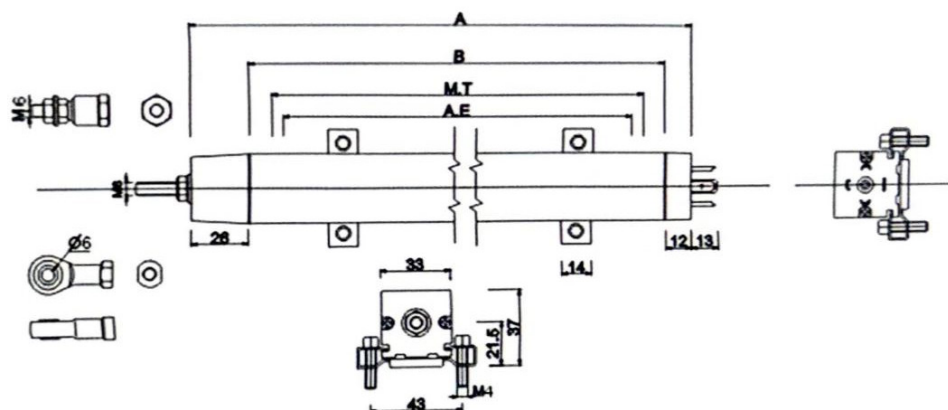
Model	mm	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425
Useful electrical stroke	mm	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425
Resistance $\pm 10\%$	k Ω	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Mechanical stroke	mm	57	82	107	132	157	182	207	232	257	282	307	332	357	382	407	432
Case Length (A)	mm	130	155	180	205	230	255	280	305	330	355	380	405	430	455	480	505

Model	mm	450	475	500	550	600	650	700	750	800	850	900	950	1000	1150	1250
Useful electrical stroke	mm	450	475	500	550	600	650	700	750	800	850	900	950	1000	1150	1250
Resistance $\pm 10\%$	k Ω	5.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	20.0	20.0
Mechanical stroke	mm	457	482	507	557	607	657	707	757	807	857	907	957	1007	1157	1257
Case Length (A)	mm	530	555	580	630	680	730	780	830	880	930	980	1030	1080	1230	1330

ELECTRICAL CONNECTION



MECHANICAL DIMENSION



ORDER FORMAT

LTC - X - X

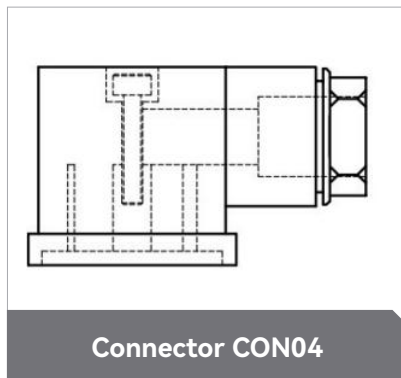
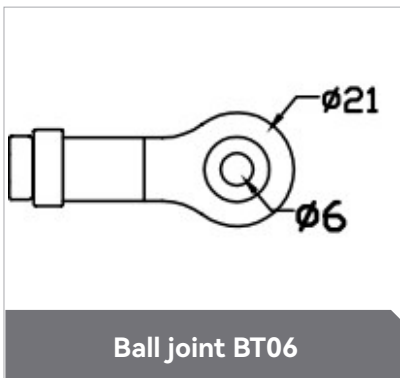
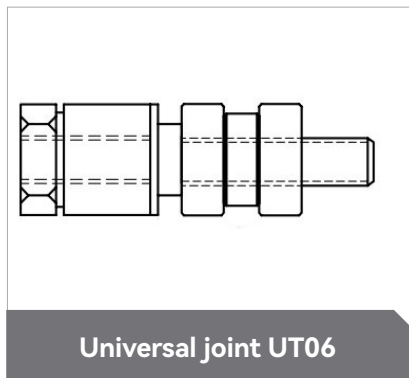
Stroke	Code
50mm	50
75mm	75
...	...
1250mm	1250

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

Example: LTC-50, 50mm stroke.

LTC-50-C2, 50mm stroke, 4~20mA output.

ACCESSORIES



STANDARD ACCESSORIES:

Fixing kit: 2 brackets, 4 screws, 1 UT06 universal joint, 1 CON04 connector