CORSA TECHNIC

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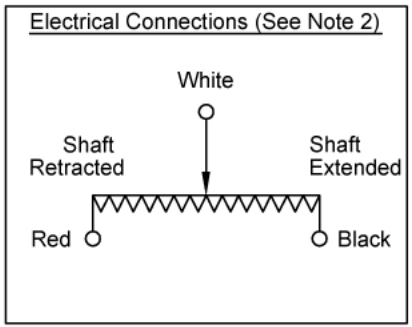
Not to Scale
Dims: mm

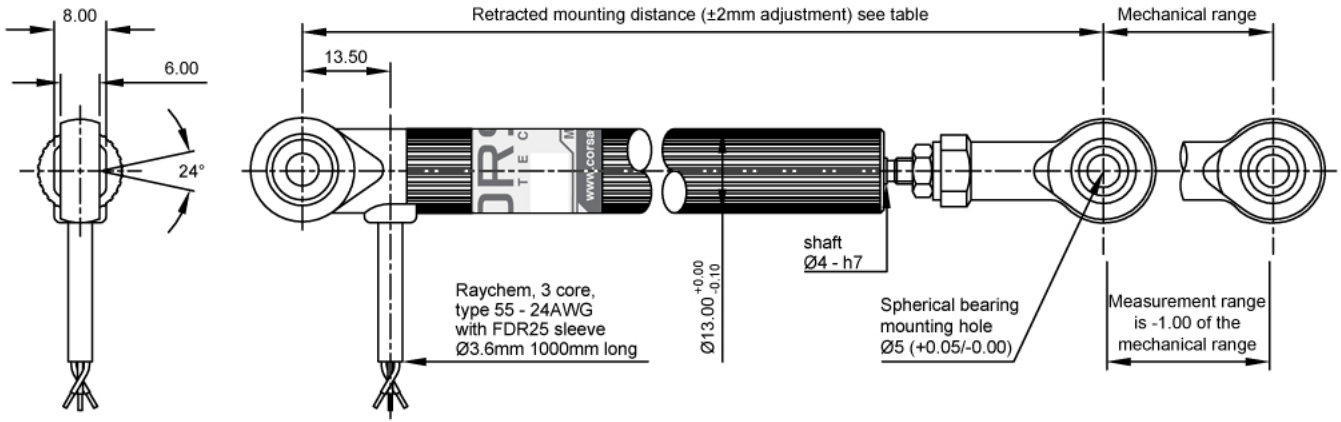
LHP Series
Linear Potentiometer

These high performance, high temperature linear potentiometers are designed for the most demanding control and measurement applications.

They are constructed from aluminum alloy and stainless steel for high strength and durability, yet are lightweight in design, making them ideal for motor racing, automotive, and general industrial applications.

The sensors are sealed to IP66 as standard and feature fire and chemical resistant high temperature Raychem FDR-type55-24 signal cabling ensuring total system reliability. The physical design of these slim body linear potentiometers enables their survival in the severest of environmental conditions.





Electrical & Mechanical Information **Ordering Information: SEN-LHP-XXX (XXX = length)**

Measurement range (±0.5mm)	25	~~50~~	~~75~~	100	125	150	175	200	225	250	300	350	mm
Retracted mounting distance	123	148	173	198	223	248	273	298	323	348	398	448	mm
Resistance (Typical)	1	2	3	4	5	6	7	8	9	10	12	14	K ohms
Non-linearity	<±0.25	<±0.25	<±0.15	<±0.15	<±0.15	<±0.15	<±0.15	<±0.15	<±0.15	<±0.15	<±0.15	<±0.15	%
Applied voltage	<22	<45	<65	<90	<110	<130	<130	<130	<130	<130	<130	<130	Volts
Wiper load	>500	>500	>500	>500	>500	>600	>700	>800	>900	>1000	>1100	>1200	K ohms
Mechanical range	Measurement Range +1												mm
Shaft velocity	<10												m/sec
Insulation resistance (500V dc.)	>100												M ohms
Operating temp. range	-30° to +125°												°C
Sealing	IP66												
Shaft operating force	200 (typical)												grams
Weight (approx)	60	66	73	78	85	90	96	102	108	114	120	126	grams
Case material	Aluminium 6063 - Sulphuric acid anodised												
Shaft material	Stainless steel - 303 series												
Rod end bearing material	Aluminium 6262 housing & Stainless steel ball												

Note 1: Incorrect wiring may cause internal damage to the sensor. Note 2: Circuit recommendation: Due to the presence of a high contact resistance, these potentiometers should be used as voltage dividers only. Operation with wiper circuits of low impedance will degrade the output signal.