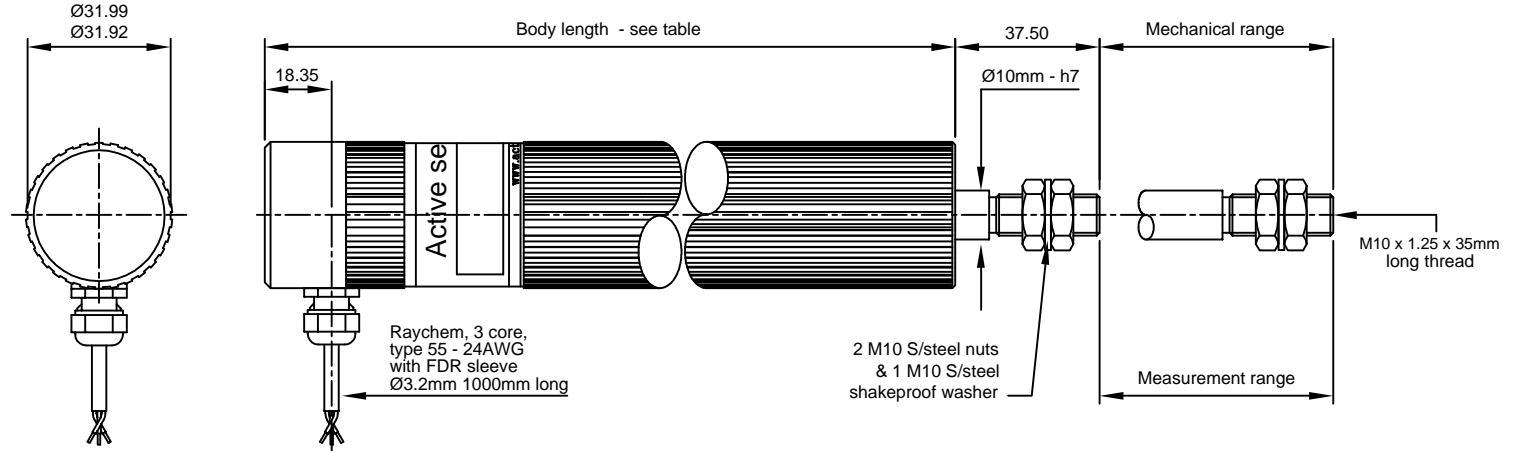


CLS3221

Linear Potentiometer

The robust, long stroke CLS3220 sensor is used extensively in industrial monitoring and process control applications. It is also used in flight simulator control systems and similar motion control platforms.

The housing is manufactured from aluminium alloy and the operating shaft is stainless steel. The spherical mounting bearings and body clamps are machined from aluminium alloy for strength and durability.



Other models in this range

- CLS0950 - Ultra slim and compact
- CLS1311 - Body clamp mounting
- CLS1312 - Rod end mounting
- CLS1313 - Spring loaded shaft
- CLS1321 - Body clamp mounting
- CLS1322 - Rod end mounting
- CLS1323 - Spring loaded shaft
- CLS1324 - Extended shaft model (+25mm)
- CLS1325 - Extended shaft model (+50mm)
- CLS1326 - Threaded both ends of shaft
- CLS1328 - Extended shaft model (+41.5mm)
- CLS1921 - Body clamp mounting
- CLS1922 - Rod end mounting
- CLS1924 - Extended shaft model (+25mm)
- CLS1925 - Extended shaft model (+50mm)
- CLS3222 - Rod end mounting

Electrical & Mechanical Information

Measurement range	(±0.5mm)	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	mm
Body length		351	401	451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1201	mm
Resistance	(Typical)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	44	kohms
Non-linearity	<±	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	%
Applied voltage		<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	Volts
Wiper load		>1.0	>1.2	>1.4	>1.6	>1.8	>2.0	>2.2	>2.4	>2.6	>2.8	>3.0	>3.2	>3.4	>3.6	>3.8	>4.0	>4.4	Mohms
Mechanical range		Measurement range +1																	mm
Shaft velocity		<10																	m/sec
Insulation resistance (at 500V dc.)		>50																	Mohms
Operating temp. range		-30° to +100°C																	°C
Sealing		Shaft seal																	
Shaft operating force		<100 (typical)																	grams
Weight. (approx.)		875	1010	1095	1180	1300	1420	1505	1595	1795	1970	2045	2105	2145	2180	2265	2355	2530	grams

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.

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