



Sense  
Measure  
Control

# Model KP-94 Linear Potentiometer

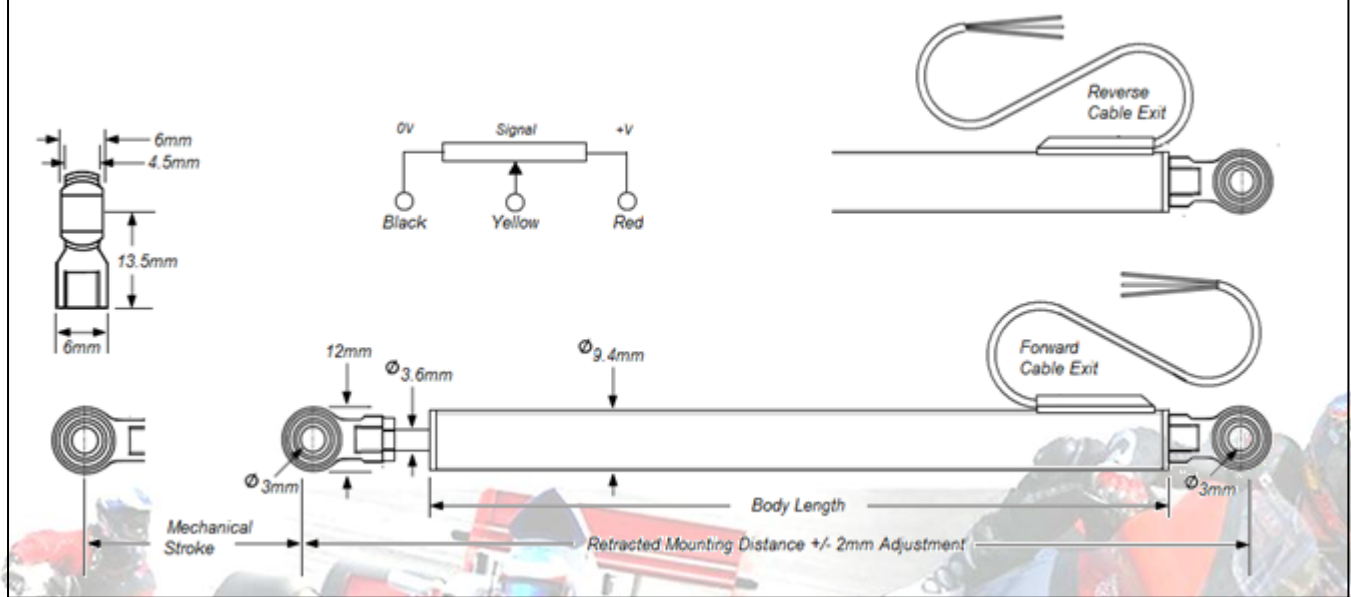
- **Rugged Construction**
- **Excellent Linearity**
- **Sealed To IP67**
- **Long Life**
- **Compact Design**

The KP-94 series of Linear Potentiometers are designed to withstand the harsh environment of Industrial and Motorsport applications. Using proven 'conductive plastic' technology, the sensors offer high performance and reliability.



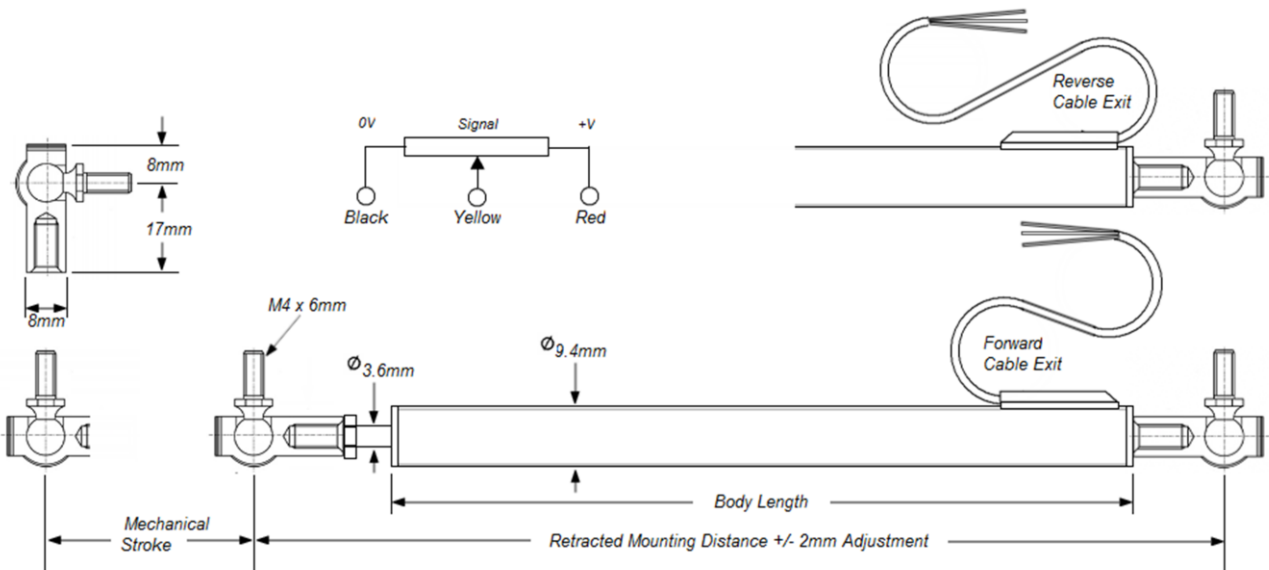
## KP-94M-

Active Electrical Stroke (mm)	12.5	25	50	75	100	125	150	175
Retracted Mounting Distance (mm)*	86	98	123	148	179	204	229	254
Mechanical Stroke (mm)*	14.5	27	52	77	102	127	152	177
Body Length (mm)	51	64	89	114	145	170	195	220
Approx. Weight Without Cable (g)	15	17	21	25	29	33	37	41
Resistance (K $\Omega$ +/-20%)	0.8	1.7	3.4	5	6.7	8.4	10	11.7



**KP-94P-**

Active Electrical Stroke (mm)	12.5	25	50	75	100	125	150	175
Retracted Mounting Distance (mm)*	98	110	135	160	191	216	241	266
Mechanical Stroke (mm)*	14.5	27	52	77	102	127	152	177
Body Length (mm)	51	64	89	114	145	170	195	220
Weight Without Cable (g)	19	21	25	29	33	37	41	45
Resistance ( K $\Omega$ +/-20%)	0.8	1.7	3.4	5	6.7	8.4	10	11.7



**SPECIFICATIONS:**

Maximum Supply Voltage	40 VDC
Resolution	Essentially Infinite
Repeatability	$\leq 0.01\text{mm}$
Operational Speed	10 M/s max
Mechanical Life	> 25 Million Cycles
Recommended Wiper Current	< 10 $\mu\text{A}$
Independent Linearity*	$\leq \pm 0.5\%$
Cable Type*	Raychem 55A, 26 AWG, TPV Jacket
Cable Length*	500mm
Track Technology	Conductive Plastic
Housing Material	Aluminium
Shaft Material	Stainless Steel
Operating Temperature	-40 to +150°C
Sealing	IP66 (Dual O Ring) or IP67 (PTFE U Spring + O Ring)

Ordering Information: **KP-94M / KP-94P – Range (mm) – Seal (IP66/IP67) – Cable Exit Direction (R/F)**

Eg: KP-94P-150-67-R  
Pop end Joints – 150mm range – IP67 Seal – Reversed Cable Exit

\*Custom options available upon request

KP94.1211