

- Rugged Construction
- Compact Design
- Sealed to IP65
- Long Life
- Excellent Linearity
- High Operating Temperature

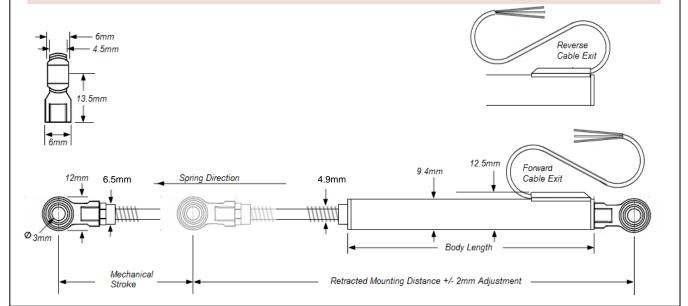
Manufactured in UK

The MS-94SR series of Spring Return linear potentiometers are designed to withstand the harsh environments of motorsport, testing and industrial applications. Using proven 'Conductive Plastic' technology, the sensors offer high performance and reliability at operational temperatures up to +175°C

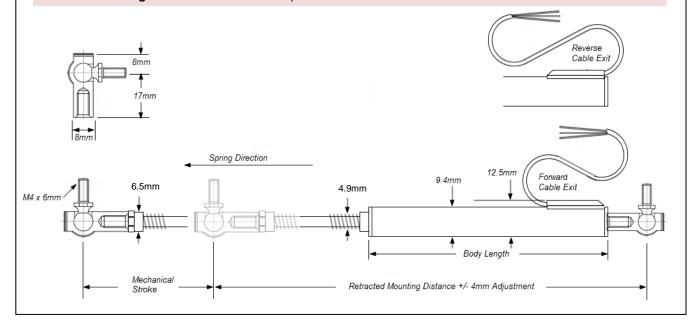
The small and lightweight, 9.4mm diameter MS-94SR series is available with stroke lengths up to 75mm, flange mount and sealing up to IP65.

Specifications						
Technology	Conductive plastic					
Stroke lengths	12.5mm – 75mm					
Resolution	Essentially infinite					
Max. Supply Voltage	40VDC					
Output Signal	Potentiometer (volta	Potentiometer (voltage divider)				
Recommended Wiper Currer	nt <10µA	<10µA				
Independent Linearity	≤0.5%					
Repeatability	≤0.01mm					
Operational Speed	10m/s max					
Electrical & Mechanical Life	>25 million operation	on operations (depending on installation and environmental conditions)				
Housing Material	Aluminium					
Shaft & Spring Material	Stainless steel	Stainless steel				
Sealing	IP54 (felt) ; IP65 (Felt + Viton O ring)					
Operating Temperature	-40°C - +150°C (short term +175°C)					
Electrical Connection						
0V Signal	+V O Red					
Wiring	+Ve Supply	0V Supply (GND)	Signal			
Single Output	RED	BLACK	YELLOW			
Cable Type	3 wire Raychem 55A, 26A	wire Raychem 55A, 26AWG, FDR 25 sleeve				
Cable Length	Approximately 500mm					
	Output signal may be reversed by swapping connections to the Red & Black wires. DO NOT connect +Ve Supply to the Yellow wire, as this will cause damage to the sensor element.					

MS-94SRM-					
Electrical Stroke (mm)	12.5	25	50	75	
Retracted Mounting Distance (mm)	94	120	176	200	
Min. Mechanical Stroke (mm)	14	27	52	77	
Body Length (mm)	53	66	91	116	
Approx. Weight Without Cable (g)	15	18	24	27	
Resistance (KΩ +/-20%	0.8	1.7	3.4	5	
Mechanical Fixing	Rod End Bearings Ø3mm				

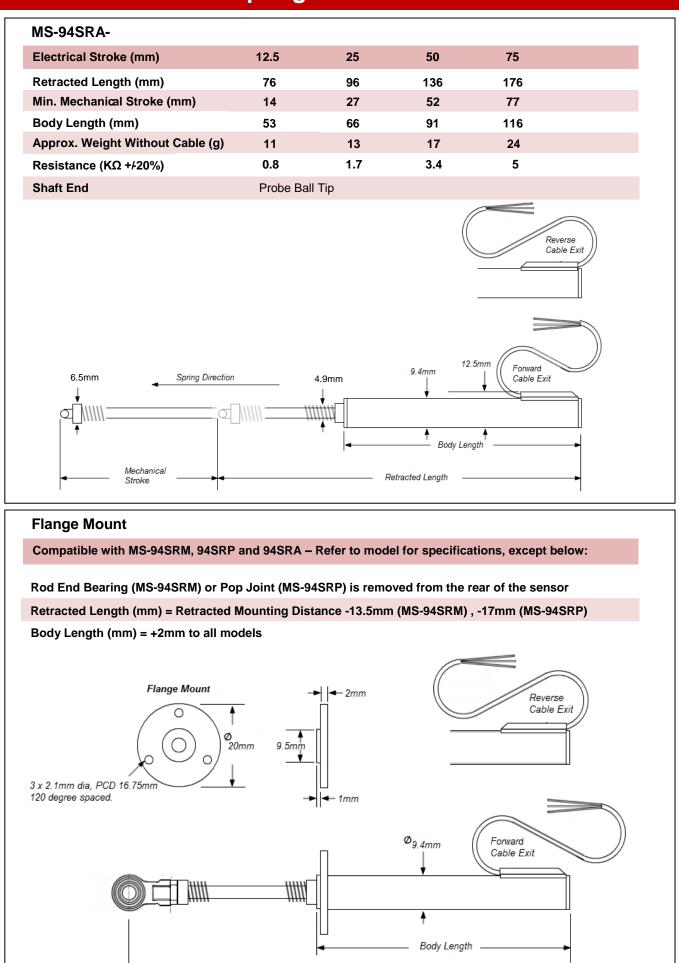


MS-94SRP-					
Electrical Stroke (mm)	12.5	25	50	75	
Retracted Mounting Distance (mm)	106	132	188	212	
Min. Mechanical Stroke (mm)	14	27	52	77	
Body Length (mm)	53	66	91	116	
Approx. Weight Without Cable (g)	19	22	28	31	
Resistance (KΩ +/-20%)	0.8	1.7	3.4	5	
Mechanical Fixing	Pop Joints M4 x 6mm				



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Retracted Length +/- 2mm Adjustment

Ordering Information

Please use the chart below to construct your product code...

Sample Product Code: M	IS – 94SR	<u>M</u> – <u>5(</u>	<u>0</u> – <u>65</u>	- <u>F</u> -	<u>000</u>
Series MS – 94SR					
Mounting					
M = Rod End Bearings					
P = Pop Joints					
A = No Fixings (probe ball tip fitted to sha	aft)				
Stroke Length					
Insert required length in mm					
12.5 , 25 , 50 , 75					
Seal Rating					
54 = IP54					
65 = IP65					
Cable Exit Direction					
F = Forward facing cable exit					
R = Reverse facing cable exit					
Options (compatible options may be sele	cted, separat	ed by –	between	codes)
 000 = No options selected FL = Flange Mount SLV = Protective sleeve (refer to accessoried to access	ies below)	as standa	ard)		
Accessories					
8			e		1



 Body Clamp DG6
 For use with model MS-94SRA
 Protective Sleeve SLV
 For use with models MS-94SRM & 94SRP

 Material
 Aluminium, rubber lining
 Material
 Carbon fibre, Peek Ø12mm

Since the suitability of these products depends upon a wide range of factors not in our control, the manufacturer expects and understands that you will conduct the testing and evaluation necessary to determine that these products are suitable for your application. Whilst every effort is made to ensure the above details are correct at the time of printing, the manufacturer reserves the right to make material changes, and / or technical changes without notification.