

Manufactured in UK

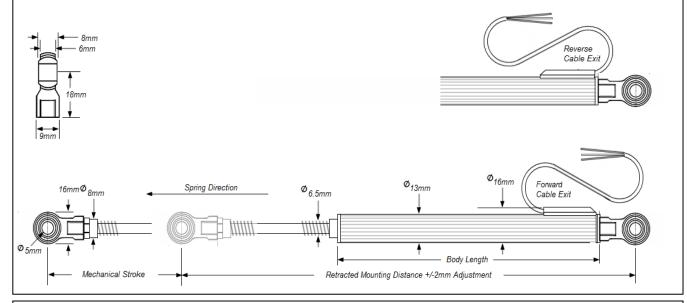
- Rugged Construction
- Compact Design
- Sealed to IP67
- Long Life
- Excellent Linearity
- Regulated Output Options

The MS-13SR series of 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 +150°C

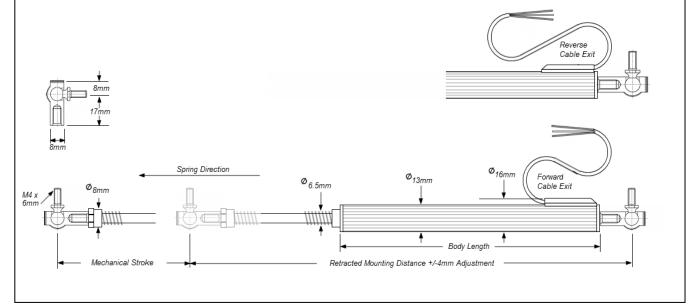
The rugged, yet compact 13mm diameter MS-13SR is available with stroke lengths up to 75mm, flange mount, a choice of potentiometer and regulated outputs, sealing up to IP67.

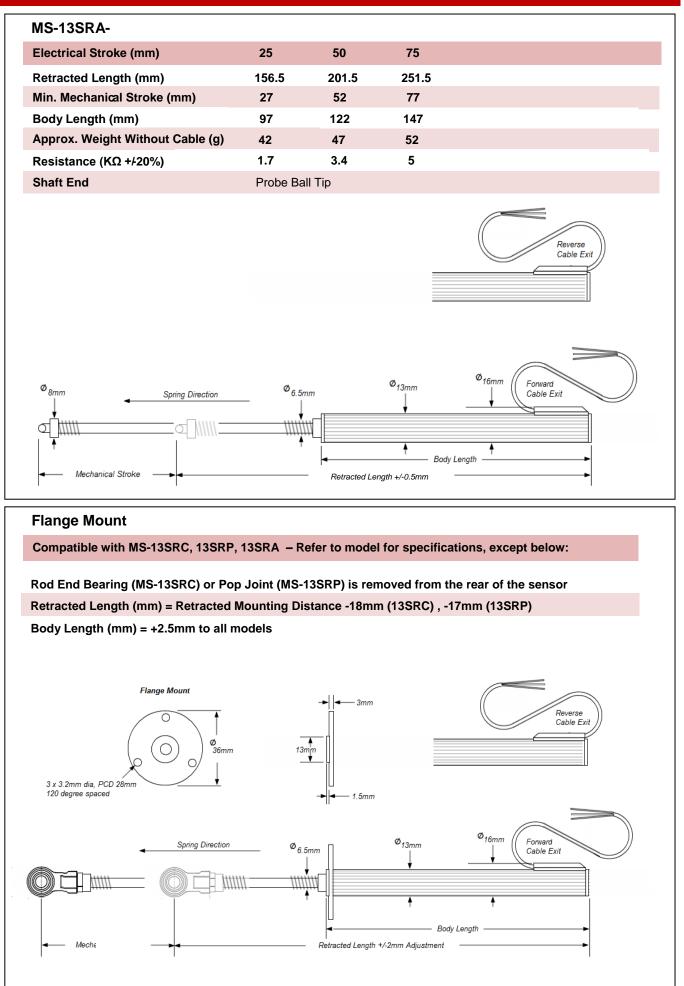
Specifications					
Electrical (Potentiometer Out	put)				
Technology	Conductive plastic				
Max. Supply Voltage	40VDC				
Resolution	Essentially infinite				
Recommended Wiper Current	<10µA				
Output Signal	Potentiometer (voltage divider)				
Repeatability	≤0.01mm				
Independent Linearity	≤0.5%				
Electrical (Regulated Output)					
Technology	Conductive plastic with 'on board' signal conditioning				
Supply Voltage	6-30VDC (4-20mA, 0-5V output) ; 11-30VDC (0-10V output)				
Resolution	Essentially infinite				
Reverse Polarity Protection	Yes				
Output Signal	4-20mA ; 0-5VDC ; 0-10VDC regulated output options				
Repeatability	≤0.01mm				
Independent Linearity	≤0.5%				
Mechanical					
Operating Temperature	-40°C - +150°C (Potentiometer output) ; -30°C - +125°C (4-20mA, 0-5V, 0-10V output)				
Stroke lengths	25mm – 200mm				
Operational Speed	10m/s max				
Electrical & Mechanical Life	>25 million operations (depending on installation and environmental conditions)				
Housing Material	Aluminium				
Shaft & Spring Material	Stainless steel				
Sealing	IP54 (felt) ; IP65 (2 x Viton O ring) ; IP67 (PTFE U spring, Viton O ring)				

MS-13SRC-			
Electrical Stroke (mm)	25	50	75
Retracted Mounting Distance (mm)	184.5	234.5	284.5
Min. Mechanical Stroke (mm)	27	52	77
Body Length (mm)	97	122	147
Approx. Weight Without Cable (g)	49	54	59
Resistance (KΩ +/-20%	1.7	3.4	5
Mechanical Fixing	Compact	Rod End Bea	arings - Ø5mm

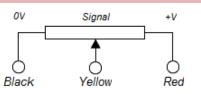


25	50	75		
184.5	234.5	284.5		
27	52	77		
97	122	147		
49	54	59		
1.7	3.4	5		
Pop Join	ts M4 x 6mm			
	184.5 27 97 49 1.7	184.5 234.5 27 52 97 122 49 54	184.5 234.5 284.5 27 52 77 97 122 147 49 54 59 1.7 3.4 5	184.5 234.5 284.5 27 52 77 97 122 147 49 54 59 1.7 3.4 5





Electrical Connection (Potentiometer output)



Wiring	+Ve Supply	0V Supply (GND)	Signal		
Single Output	RED	BLACK	YELLOW		
Dual Output (option)	BROWN	BLUE	WHITE	(Green wire = Not Used)	
Output Signal	Output signal may be reversed by swapping connections to the Red & Black and Brown & Blue wires. DO NOT connect +Ve supply to the Yellow or White wires, as this will cause damage to the sensor element.				

Electrical Connection (0-5VDC ; 0-10VDC output)				
Wiring	+Ve Supply	0V Supply (GND)	Signal	
Single Output	RED	BLACK	YELLOW	
Electrical Connection (4	-20mA output) 2 wire			
Wiring	+Ve Supply	0V Supply (GND)		
Single Output	RED	BLACK		(Yellow wire = Not Used)
Electrical Cable				
Cable Type	Raychem 55A, 26AWG	, FDR 25 sleeve		

Approximately 500mm

Accessories

Cable Length





Body Clamp -DG8	For use with model MS-13SRA
body oldinp boo	

Material

Aluminium, Rubber Lined

Ordering Information

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

Sample Product Code:	MS – 13SR	R <u>C</u> –	<u>75</u> -	- <u>67</u>	– <u>F</u>	- <u>00</u>	0
Series MS – 13SR							
Mounting							
C = Rod End Bearings							
P = Pop Joints							
A = No Fixings							
,							
Stroke Length							
Insert required length in mm							
25, 50, 75							
Seal Rating							
54 = IP54							
65 = IP65							
67 = IP67							
Cable Exit Direction							
F = Forward facing cable exit							
R = Reverse facing cable exit							
Options (compatible options may be	selected, separa	ated by	/ - be	etwee	n coo	les)	
000 = No options selected FL = Flange Mount Dual = Dual output (6 wire) SLV = Protective sleeve (refer to acce DG8 = 2 x Body Clamps (use with MS 420 = 4-20mA regulated (single output)	S-13SRÁ)						

V05 = 0-5VDC regulated (single output only) **V10** = 0-10VDC regulated (single output only)

Lxxxx = Cable length in mm (500mm cable supplied as standard)

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.