MS-94SR series - Spring Return Linear Potentiometers



Manufactured in UK

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

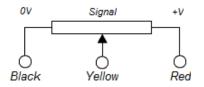


The MS-94SR series of Spring Return linear potentiometers are designed to withstand the harsh environments of motorsport, testing and industrial applications. Using proven 'Conductive Plastic' technology, the sensors offer high performance and reliability at operational temperatures up to +175°C

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.

| <u>Specifications</u> | | | | |
|------------------------------|---|--|--|--|
| Technology | Conductive plastic | | | |
| Stroke lengths | 12.5mm – 75mm | | | |
| Resolution | Essentially infinite | | | |
| Max. Supply Voltage | 40VDC | | | |
| Output Signal | Potentiometer (voltage divider) | | | |
| Recommended Wiper Current | <10µA | | | |
| Independent Linearity | ≤0.5% | | | |
| Repeatability | ≤0.01mm | | | |
| 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 (Felt + Viton O ring) | | | |
| Operating Temperature | -40°C - +150°C (short term +175°C) | | | |

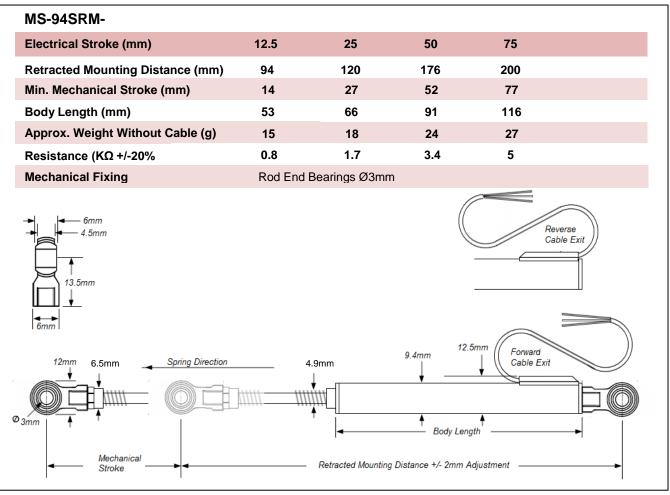
Electrical Connection

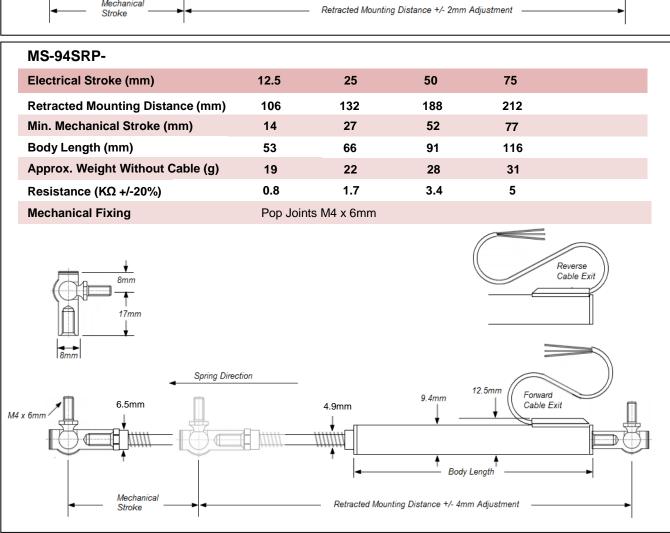


| Wiring | +Ve Supply | 0V Supply (GND) | Signal | |
|---------------|--|-----------------|--------|--|
| Single Output | RED | BLACK | YELLOW | |
| Cable Type | 3 wire Raychem 55A, 26AWG, FDR 25 sleeve | | | |
| Cable Length | Approximately 500mm | | | |
| Output Signal | Output signal may be reversed by swapping connections to the Red & Black wires. DO NOT | | | |

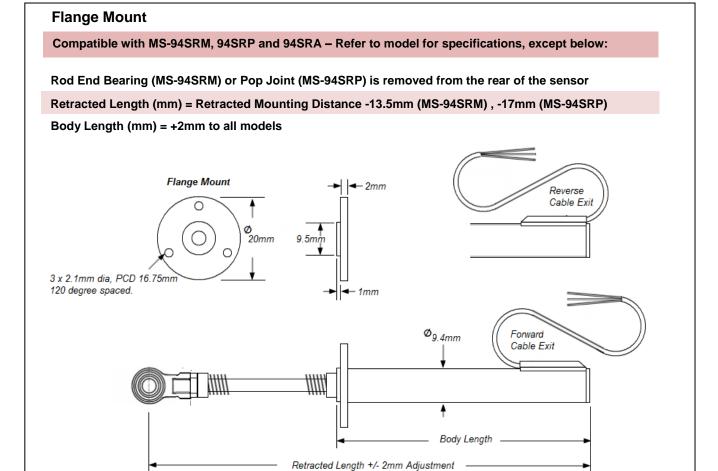
utput Signal Output signal may be reversed by swapping connections to the Red & Black wires. DO NO connect +Ve Supply to the Yellow wire, as this will cause damage to the sensor element.

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Ordering Information

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

Sample Product Code: MS – 94SR<u>M</u> – <u>50</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 shaft)

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 selected, separated by - between codes)

000 = No options selected

FL = Flange Mount

SLV = Protective sleeve (refer to accessories below)

DG6 = 2 x Body clamp (refer to accessories below)

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

Accessories



Body Clamp DG6

For use with model MS-94SRA

Material

Aluminium, rubber lining



Protective Sleeve SLV

For use with models MS-94SRM & 94SRP

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.