

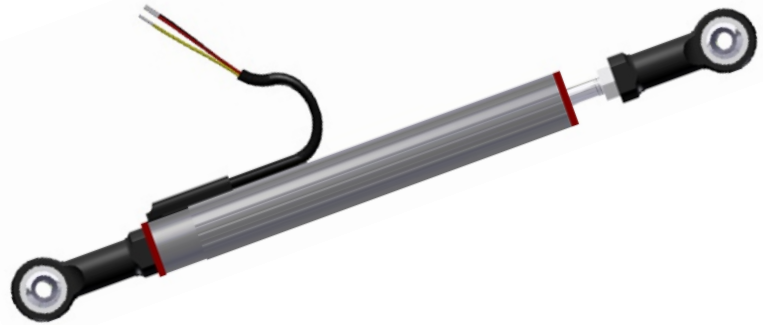
# MS-13 series - Compact Linear Potentiometers

Manufactured in UK

# StrainSense

**MultiSense**  
Solutions Ltd

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

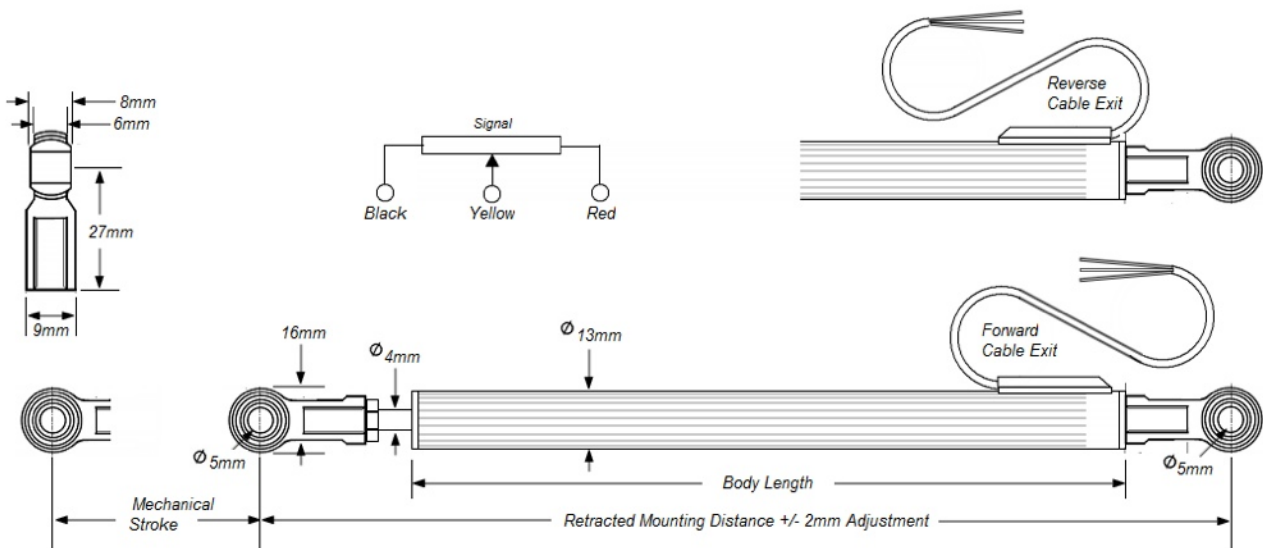


The MS-13 series of Linear Potentiometers are designed to withstand the harsh environment of Industrial and Motorsport applications. Using proven 'conductive plastic' technology, the sensors offer high performance and reliability.

## MS-13M-

## Standard Type

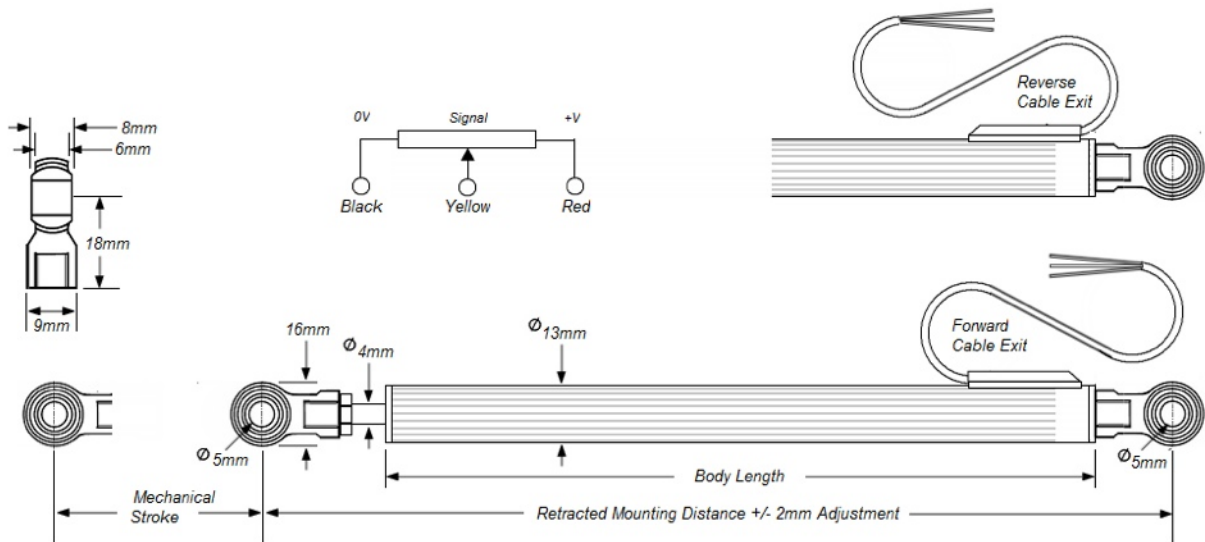
Active Electrical Stroke (mm)	25	50	75	100	125	150	175	200
Retracted Mounting Distance (mm)*	173	198	223	248	273	298	323	348
Mechanical Stroke (mm)*	27	52	77	102	127	152	177	202
Body Length	105	130	155	180	205	230	255	280
Weight Without Cable (g)	53	58	63	68	73	78	83	88
Resistance ( KOhms +/-20% )	1.7	3.4	5	6.7	8.4	10	11.7	13.4



**MS-13C-**

**Compact Type**

Active Electrical Stroke (mm)	25	50	75	100	125	150	175
Retracted Mounting Distance (mm)*	142	167	192	217	242	267	292
Mechanical Stroke (mm)*	27	52	77	102	127	152	177
Body Length	95	120	145	170	195	220	245
Weight Without Cable (g)	43	48	53	58	63	68	73
Resistance ( KOHms +/-20% )	1.7	3.4	5	6.7	8.4	10	11.7



**Specifications:**

<b>Maximum Supply Voltage</b>	40 VDC
<b>Resolution</b>	Essentially Infinite
<b>Repeatability</b>	≤0.01mm
<b>Operational Speed</b>	10 M/s max
<b>Mechanical Life</b>	> 25 Million Cycles
<b>Recommended Wiper Current</b>	< 10µA
<b>Independent Linearity*</b>	≤ +/- 0.5% (Option to +/- 0.1%)
<b>Cable Type*</b>	Raychem 55A, 26 AWG, TPV Jacket
<b>Cable Length*</b>	500mm
<b>Track Technology</b>	Conductive Plastic
<b>Housing Material</b>	Aluminium
<b>Shaft Material</b>	Stainless Steel
<b>Operating Temperature</b>	-40 to +150°C
<b>Sealing Option</b>	IP54 (Light Duty O Ring) ; IP65 (Dual O Rings) ; IP67 (PTFE U Spring + O Ring)

**Ordering Information:**

**MS-13M / MS-13C – Range (mm) – Seal (IP54/65/67) – Cable Exit Direction (R/F)**

e.g : **MS-13C – 150 – 67 – R**

Compact – 150mm range – IP67 Seal – Reverse Cable Exit

\* Custom Options Available On Request

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.

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