

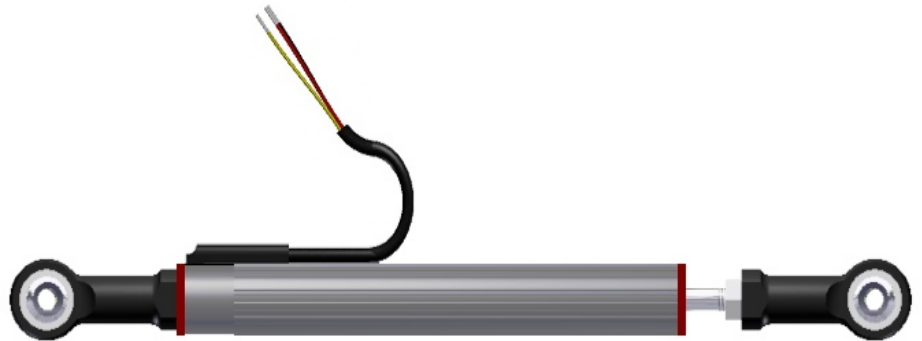
# MS-19 series - Heavy Duty Linear Potentiometers

Manufactured in UK

# StrainSense

**MultiSense**  
Solutions Ltd

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



The MS-19 series of Linear Potentiometers are designed to withstand the harsh environment of Industrial applications. Using proven 'conductive plastic' technology, the sensors offer high performance and reliability.

MS-19M-	Standard Type							
<b>Active Electrical Stroke (mm)</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>
<b>Retracted Mounting Distance (mm)*</b>	<b>173</b>	<b>198</b>	<b>223</b>	<b>248</b>	<b>298</b>	<b>348</b>	<b>398</b>	<b>448</b>
<b>Mechanical Stroke (mm)*</b>	<b>27</b>	<b>52</b>	<b>77</b>	<b>102</b>	<b>152</b>	<b>202</b>	<b>252</b>	<b>302</b>
<b>Body Length</b>	<b>105</b>	<b>130</b>	<b>155</b>	<b>180</b>	<b>230</b>	<b>280</b>	<b>330</b>	<b>380</b>
<b>Weight Without Cable (g)</b>	<b>123</b>	<b>127</b>	<b>131</b>	<b>135</b>	<b>143</b>	<b>151</b>	<b>159</b>	<b>167</b>
<b>Resistance ( KOhms +/-20% )</b>	<b>1.7</b>	<b>3.4</b>	<b>5</b>	<b>6.7</b>	<b>10</b>	<b>13.4</b>	<b>16.7</b>	<b>20</b>

## Specifications:

Maximum Supply Voltage	40 VDC
Resolution	Essentially Infinite
Repeatability	≤0.01mm
Operational Speed	10 M/s max
Mechanical Life	> 25 Million Cycles
Recommended Wiper Current	< 10µA
Independent Linearity*	≤ +/- 0.5% (Option to +/- 0.1%)
Cable Type*	Raychem 55A, 24 AWG, TPV Jacket
Cable Length*	500mm
Track Technology	Conductive Plastic
Housing Material	Aluminium
Shaft Material	Stainless Steel
Operating Temperature	-40 to +150°C
Sealing	IP54 (Light Duty O Ring) ; IP65 (Dual O Rings) ; IP67 (PTFE U Spring + O Ring)

## Ordering Information:

**MS-19M / MS-19C – Range (mm) – Seal (IP54/65/67) – Cable Exit Direction (R/F)**

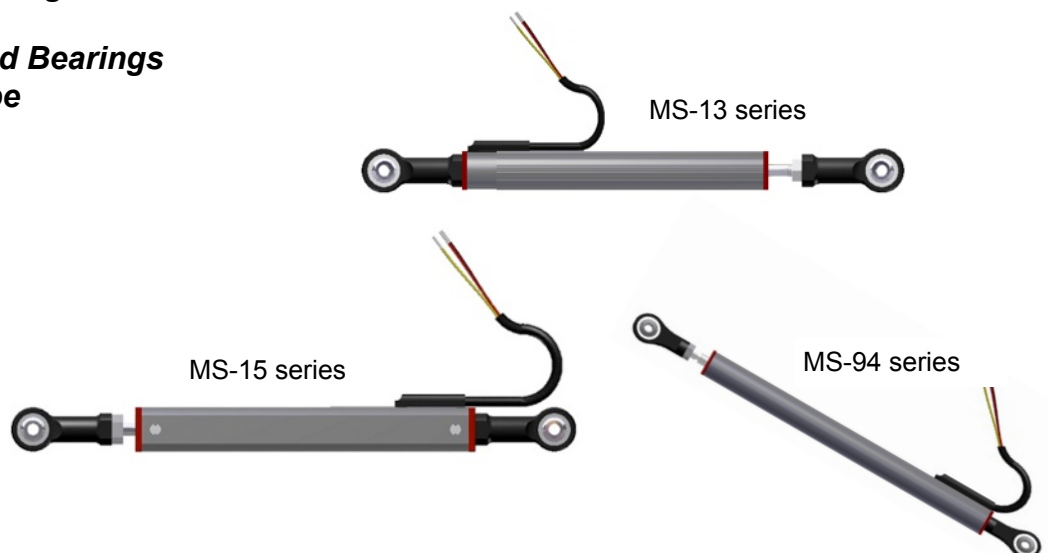
e.g : **MS-19C – 150 – 67 – R**

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

\* Custom Options Available on Request include...

**Dual Output**  
**Flange Mount**  
**Body Mount**  
**Return Spring**  
**Custom Stroke Length**  
**Custom Retracted Length**  
**Best Linearity**  
**Heavy Duty Rod End Bearings**  
**Cable Length & Type**  
**Housing Colour**  
**Fitted Connector**  
**Calibration Sheet**

**Other Types...**



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.

**Strainsense Ltd, The Old Barn, Woods Lane, Potterspurty, Northants, NN12 7PT. UK**  
**www.strainsense.co.uk      sales@strainsense.co.uk      Tel: +44(0)1908 543038**