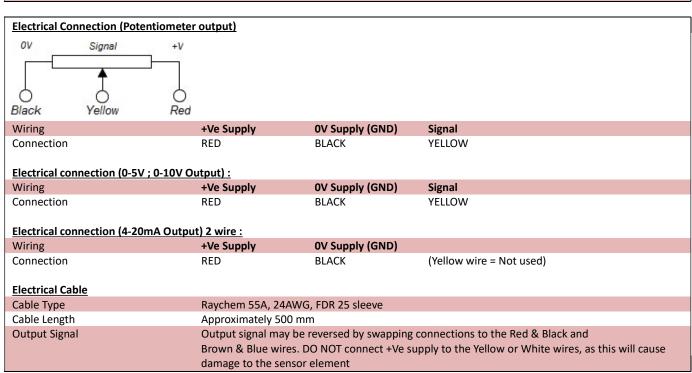
## Linear Potentiometers MS19-SRA Series (Body Ø19) - Return Spring

The MS-19 series of linear potentiometers are designed to withstand the harsh environments of testing and industrial applications. Using proven 'Conductive Plastic' technology, the sensors offer high performance and reliability at operational temperatures up to +150°C

The heavy duty 19mm diameter MS19-SRA is available with stroke lengths up to 150mm a choice of potentiometer and regulated analogue outputs, sealing up to IP67.



Specifications :				
Mechanical				
Stroke lengths (mm)	50 / 100 / 150			
Operational speed	10 m/s			
Electrical & Mechanical life	> 25 millions de cycles (depending on installation and environmental conditions)			
Material	Housing – Aluminium			
	Shaft – Stainless steel			
Operating Temperature	-40°C - +150°C (Potentiometer output) ; -30°C - +125°C (4-20mA, 0-5V, 0-10V output)			
Sealing	IP54 (felt); IP65 (2 x Viton O ring)			
Electrical (Potentiometer Output)				
Technology	Conductive plastic			
Max. Supply Voltage	40 VDC			
Resolution	Essentially infinite			
Output signal	Potentiometer (voltage divider)			
Recommended Wiper Current	< 10 μΑ			
Independent Linearity	≤ +/- 0,5 %			
Repeatability	≤0,01mm			
Electrical (Regulated Outputs)				
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 ; 0-5V ; 0-10V			
Independent Linearity	≤ +/- 0,5 %			
Repeatability	≤0,01mm			





Dimensional drawing					
Electrical Stroke (mm)	50	100	150		
Retracted Mounting Distance (mm)	208	258	358		
Min. Mechanical Stroke (mm)	52	102	152		
Body Length (mm)	182	232	332		
Approx. Weight Without Cable (g)	127	135	151		
Resistance (KΩ +/-20%)	3.4	6.7	10		
nd Shaft M5 Dome Nut					
	Reverse Cable Exit				
Spring Direction   66mm	<sup>Ø</sup> 19mm ↓		Forward Cable Exit		
Mechanical Body Length — Body Length → Retracted Length +/- 0.5mm					
Stroke	Neu acteu Leng	yan -/- 0.0mm —	•		

