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



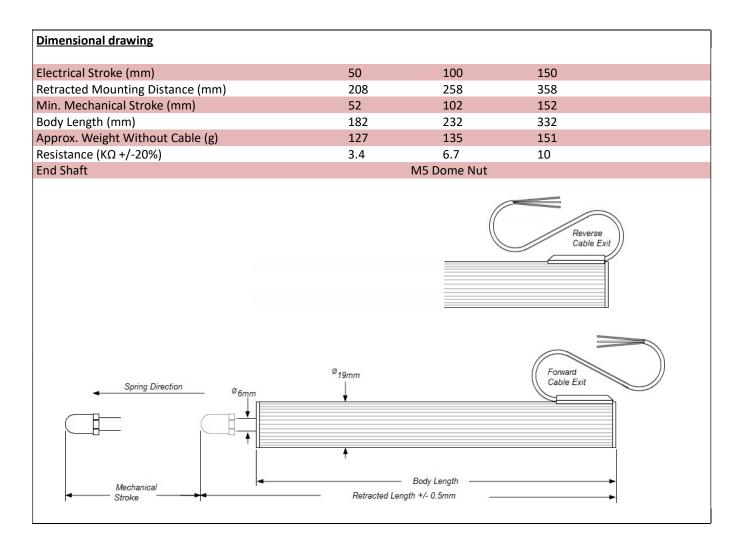
The heavy duty 19mm diameter MS19-SRA is available with stroke lengths up to 150mm a choice of potentiometer and regulated analogue outputs, sealing up to IP67.

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 µA	
Independent Linearity	≤ +/- 0,5 %	
	≤0,01mm	
Repeatability		
Repeatability Electrical (Regulated Outputs)		
Electrical (Regulated Outputs)	Conductive plastic with "on board" signal conditioning	
Electrical (Regulated Outputs) Technology	Conductive plastic with "on board" signal conditioning 6-30VDC (4-20mA ; 0-5V output) ; 11-30VDC (0-10V output)	
Electrical (Regulated Outputs) Technology Supply Voltage		
Electrical (Regulated Outputs) Technology Supply Voltage Resolution	6-30VDC (4-20mA ; 0-5V output) ; 11-30VDC (0-10V output)	
Electrical (Regulated Outputs) Technology Supply Voltage Resolution Reverse Polarity Protection	6-30VDC (4-20mA ; 0-5V output) ; 11-30VDC (0-10V output) Essentially infinite	
	6-30VDC (4-20mA ; 0-5V output) ; 11-30VDC (0-10V output) Essentially infinite Yes	
Electrical (Regulated Outputs) Technology Supply Voltage Resolution Reverse Polarity Protection Output Signal	6-30VDC (4-20mA ; 0-5V output) ; 11-30VDC (0-10V output) Essentially infinite Yes 4-20mA ; 0-5V ; 0-10V	

00 Signai	+V				
Black Yellow	O Red				
Wiring	+Ve Supply	0V Supply (GND)	Signal		
Connection	RED	BLACK	YELLOW		
Electrical connection (0-5V ; 0-10V Output) :					
Wiring	+Ve Supply	0V Supply (GND)	Signal		
Connection	RED	BLACK	YELLOW		
Electrical connection (4-20mA Output) 2 wire :					
Wiring	+Ve Supply	0V Supply (GND)			
Connection	RED	BLACK	(Yellow wire = Not used)		
Electrical Cable					
Electrical Cable Cable Type	Raychem 55A, 24	AWG, FDR 25 sleeve			
	Raychem 55A, 24/ Approximately 50				
Cable Type	Approximately 50	0 mm	connections to the Red & Black and		
Cable Type Cable Length	Approximately 50 Output signal may	0 mm be reversed by swapping	connections to the Red & Black and upply to the Yellow or White wires, as this will cause		



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Ordering Information :	
MS19-SRA – 050 –	- L50 - IP65 - F010 - I420
Series	
MS19-SRA	
Stroke Length (mm)	
050 / 100 / 150	
Linearity	
L50 = +/- 0.50% PE	
Seal Rating	
IP54 IP65	
Cable exit Direction	
F= Forward facing cable exitR= Reverse facing cable exit	
Cable Length	
005 = 0,5 m (standard) 020 = 2 m	
Or any other length	
Options	
1420 = 4-20mA regulated output U005 = 0-5V regulated output U010 = 0-10V regulated output	



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