

REM13 Series

Linear Motion Conductive Plastic Potentiometer



- Shaftless - Magnetic Drag Cursor
- Completely Sealed (IP67)
- Adjustable Mounting Brackets
- Anodized Aluminum Housing
- 50mm to 1000mm Stroke Lengths
- Up to 5 m/s Displacement Speed

Electrical Data (Note 1)	REM13 -	50	100	150	200	250	300	350	400	450	500	600	750	850	900	950	1000		
Electrical Stroke (mm ±1)		50	100	150	200	250	300	350	400	450	500	600	750	850	900	950	1000		
Resistance Value		5kΩ						10kΩ						20kΩ					
Resistance Tolerance		±20%																	
Independent Linearity Tolerance		±0.1%			±0.05														
Power (@ 40°C)		1W	2W	3W															
Max. Operating Voltage		40V										60V							
Resolution		Essentially infinite																	
Temperature Coefficient Resistance		400 ppm/°C																	
Temperature Coefficient Voltage Divider		≤ 5 ppm/°C																	
Insulation Resistance		> 100M Ω at 500VDC																	
Dielectric Strength		< 100 μA at 500V~, 50Hz, 2s, 1 bar																	
Maximum Wiper Current		10mA																	
Recommended Wiper Current		< 0.1μA (voltage divider circuit)																	

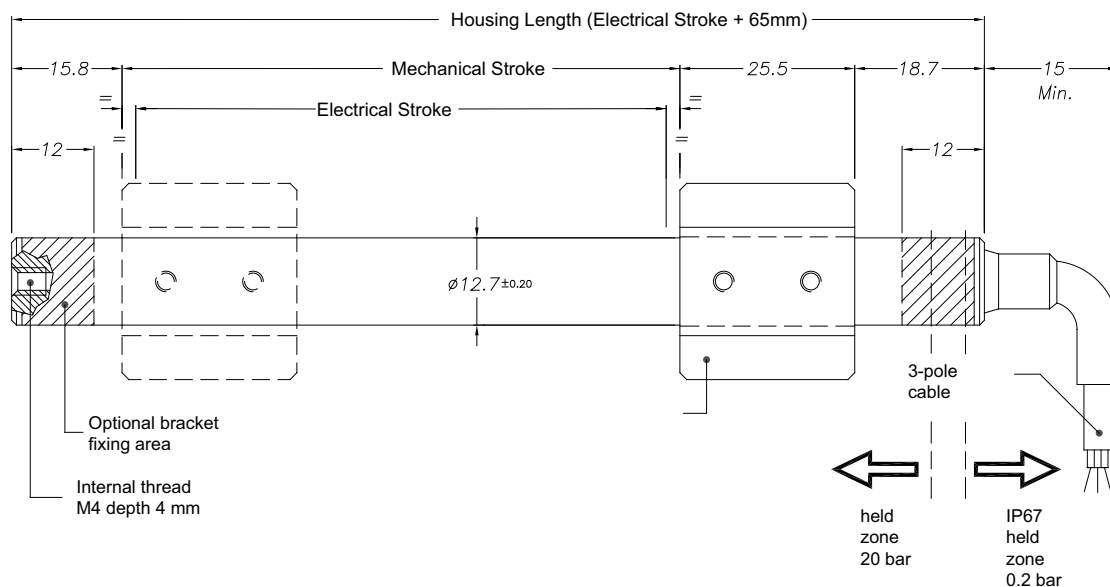
Mechanical Data (Note 1)	REM13 -	50	100	150	200	250	300	350	400	450	500	600	750	850	900	950	1000		
Mechanical Stroke (mm ±1)		55	105	155	205	255	305	355	405	455	505	605	755	855	905	955	1005		
Cursor Drag Force		≤ 0.5N																	
Max. Displacement Speed		≤ 5 m/s																	
Life Expectancy		100,000,000 reciprocating motions																	
Operating Temperature		-30°C to +100°C																	
Storage Temperature		-45°C to +120°C																	
Vibration		12G 10 to 2,000Hz																	
Shock		50G, 11ms																	
Protection Grade		IP67																	
Housing Material		Anodized aluminum, PSU																	
Mounting		Adjustable Brackets																	

Customers should test and verify device performance in any given application. Specifications are subject to change without notice.

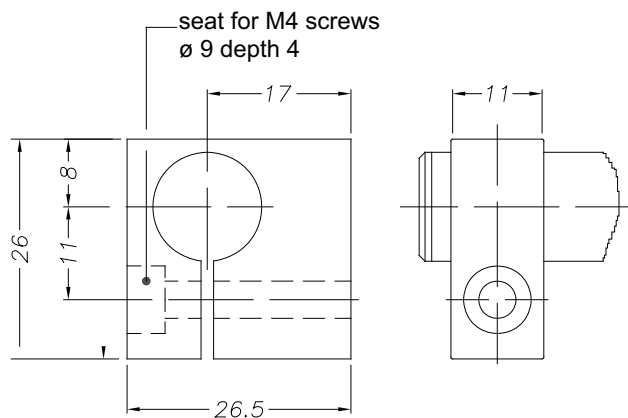
REM13 Series
Linear Motion Conductive Plastic Potentiometer



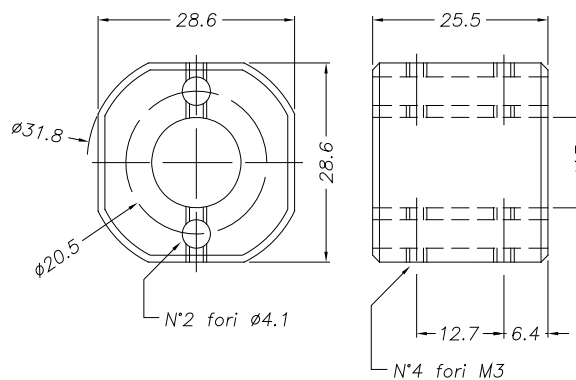
Dimensions (mm)



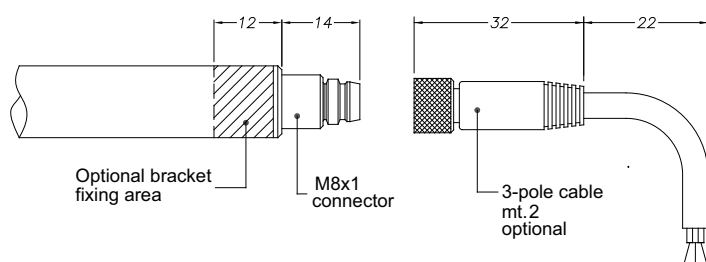
Mounting Brackets



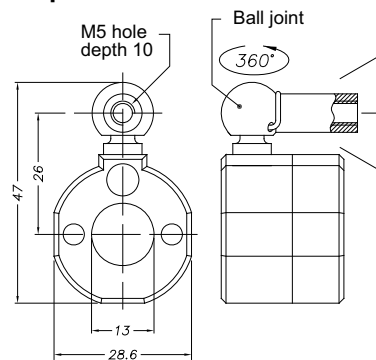
Cursor



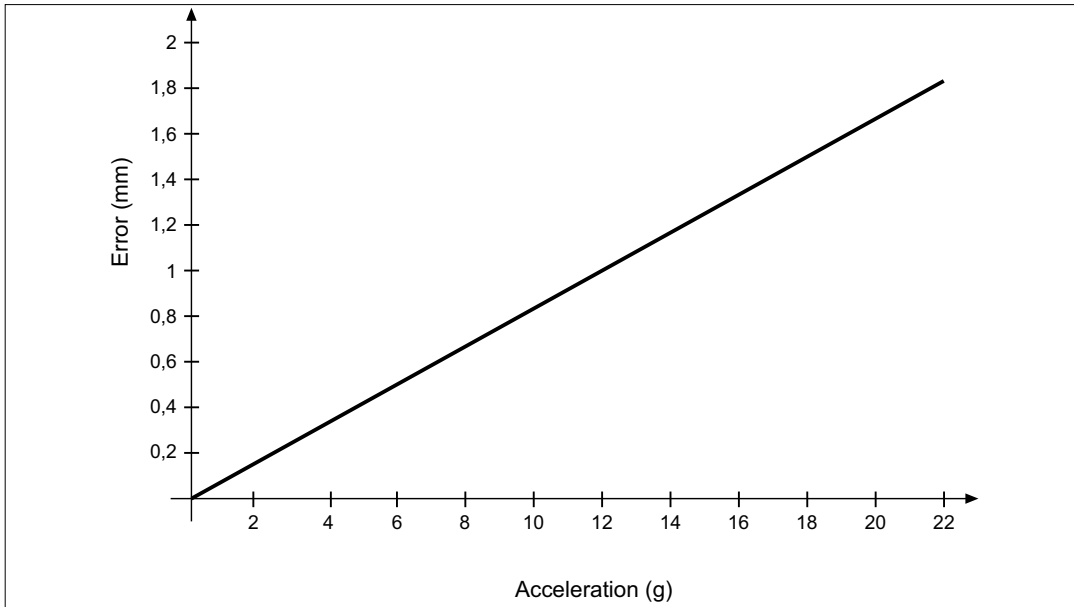
Optional Connector



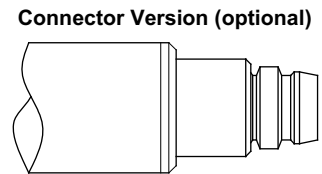
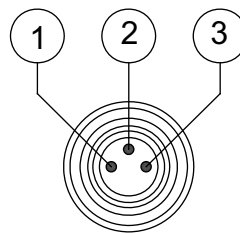
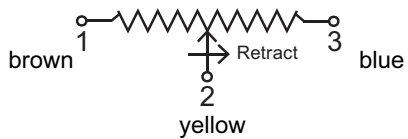
Optional Cursor w/Ball Joint



Tracking Error



Electrical Connections



INSTALLATION INSTRUCTIONS

- Make the specified electrical connections (DO NOT use the transducer as a variable resistance)
- When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise above 99% of the voltage level.