

Linear Motion Conductive Plastic Potentiometer

Series RC35



- Dual Rod End Bearings
- 50 to 750mm stroke lengths
- > 25 Million Operations Life
- IP65 Protection Grade
- Heavy Duty
- 5 m/s Displacement Speed

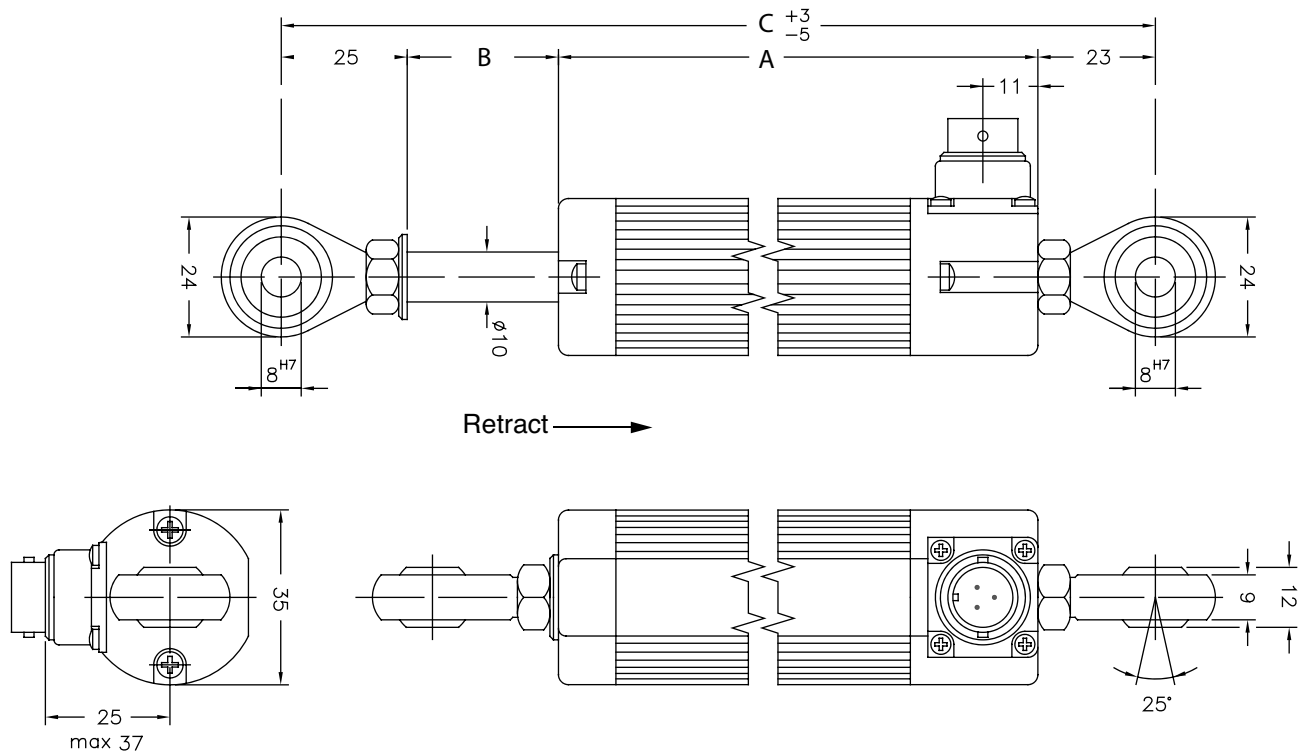
Electrical Data (Note 1)	RC35 -	50	100	130	150	175	200	225	275	300	360	375	400	450	500	600	750
Electrical Stroke (mm ±1)		50	100	130	150	175	200	225	275	300	360	375	400	450	500	600	750
Resistance Value		5kΩ															10kΩ
Resistance Tolerance		±20%															
Independent Linearity Tolerance		±0.05%															
Power (@ 40°C)		3W															
Max. Operating Voltage		60V															
Resolution		Essentially infinite															
Temperature Coefficient Resistance		400 ppm/°C															
Temperature Coefficient Voltage Divider		1.5 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)	RC35 -	50	100	130	150	175	200	225	275	300	360	375	400	450	500	600	750
Mechanical Stroke (mm ±1)		59	109	139	159	184	210	235	285	310	370	386	412	463	518	619	772
Max. Operating Friction		≤ 15N															
Max. Displacement Speed		≤ 5 m/s															
Life Expectancy		> 25,000,000 reciprocating motions															
Operating Temperature		-30°C to +100°C															
Storage Temperature		-45°C to +120°C															
Vibration		5 to 2,000Hz. Amax = 0.75mm; amax = 20G															
Shock		50G, 11ms															
Protection Grade		IP65															
Housing Material		Anodized aluminum, Nylon 66 G25															
Shaft Material		Stainless steel AISI 303															
Mounting		Ball joints (rod end bearings)															

Note 1: Customers should test and verify device performance in any given application. General specifications values are measured at temperatures of +15°C ~ +35°C. Specifications are subject to change without notice.

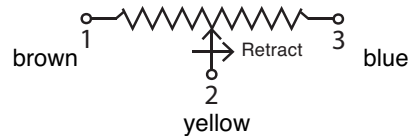
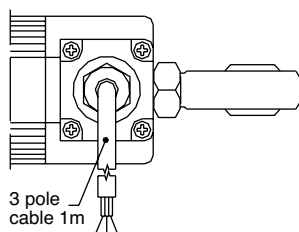
Dimensions (mm)

Series RC35

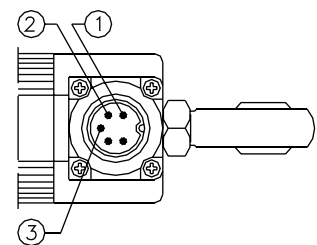


Stroke Length	50	100	130	150	175	200	225	275	300	360	375	400	450	500	600	750
Housing Length (A)	179	229	259	279	304	330	355	405	430	496	512	538	589	664	765	918
Mechanical Stroke (B)	59	109	139	159	184	210	235	285	310	370	386	412	463	518	619	772
Ball Joint Spacing (min.) (C)	231	281	311	331	356	382	407	457	482	544	564	590	641	716	817	970

Cable Version



Connector Version



SW61 IP67 (DIN 43322)

