

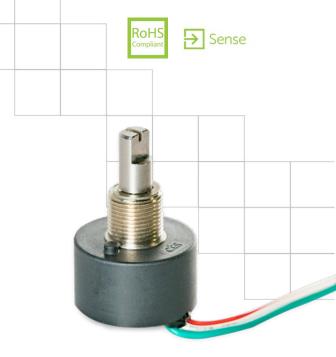
Series 285 Non-Contacting Position Sensor

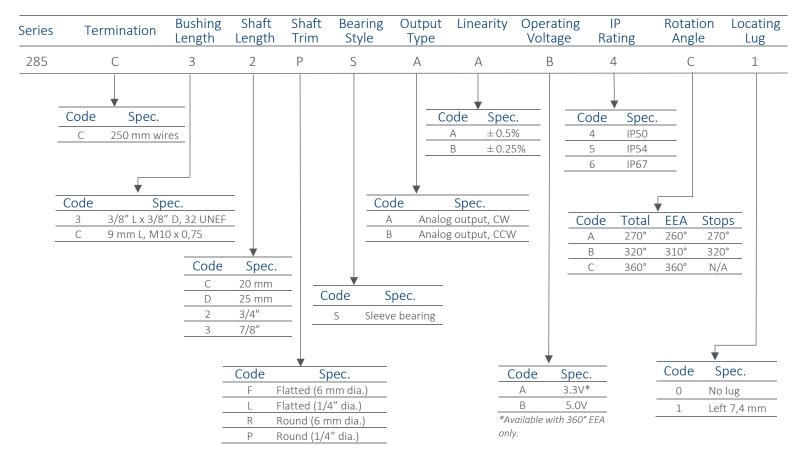
- Compact 22 mm size
- Extended rotational life (10 Million cycles)
- Wide temperature range (-40°C to +125°C)
- Precision linearity (±0.5% and ±0.25% options)
- Dust & water protection (IP50, 54 and 67 options)

Applications

- Patient platform position feedback
- Pneumatic control valve position feedback
- Draw wire position sensors
- Actuator motor position feedback
- Foot pedal, twist throttle, steering, and lift & shuttle

Ordering Information





2019-07-25 Rev. F

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Electrical Specifications

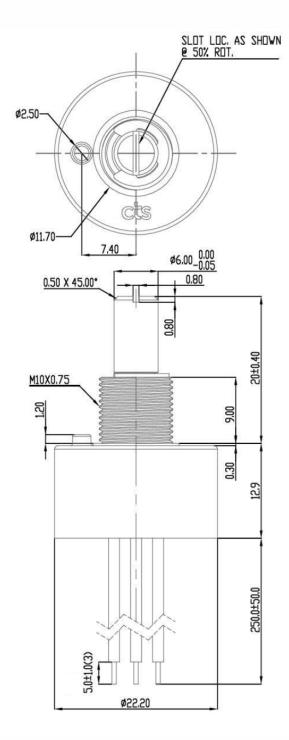
Sensor Function		Min	Typical	Max	Unit
Output	Analog				
Independent Linearity		-0.5%		+0.5%	
Hysteresis				0.2%	V _{sup}
Output Voltage		5%		95%	Vsup
Output Overvoltage Limits		-6		+18	VDC
Output Current		-8	1	+8	mA
Output Load		5	10		kΩ
Input Voltage		-10%	5	+10%	VDC
Supply Voltage Absolute Limits		-18		+18	VDC
Supply Current			10	15	mA
Resolution	12 BIT at 360°				
Dielectric Strength	1 minute			750	VDC
Insulation Resistance	at 500 VDC	1000			MegΩ
Electrostatic Discharge (ESD)	HBM	-4		+4	kV

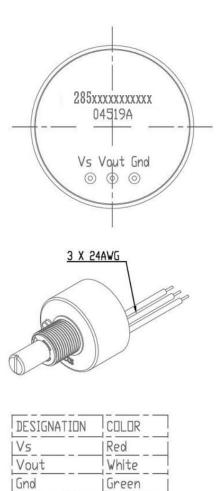
Mechanical and Environmental

Soldering	Maximum manual temperature, 350°C for 5 seconds		
Total Mechanical Travel			
Without Stops	360° continuous		
With End Stops	270° or 320°		
Static Stop Strength	40 in-oz. min.		
Push and Pull Shaft Strength	13.6 kgf min.		
Rotational Life			
Sleeve Bearing	10 Million cycles		
Operating Speed	120 RPM max.		
Vibration	30 Gs, 50 to 500 Hz		
Rotational Torque	72 gf-cm		
Panel Nut tightening Torque	25 in-lb		
IP Rating	50, 54 or 67		
Marking	CTS logo, part number, date code		
Packaging	Standard anti-static bulk packaging		
Operating Temperature Range	-40°C to +125°C		
Storage Temperature Range	-40°C to +140°C		
Weight	21 gm		

All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications. This product is compliant to RoHS3 Directive 2011/65/EU & 2015/863 Amendments of Annex II on 31 March 2015. Custom and value-added options available on request. Please contact your sales representative for additional information.







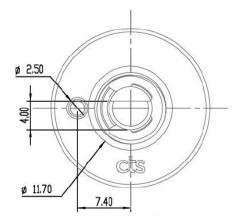
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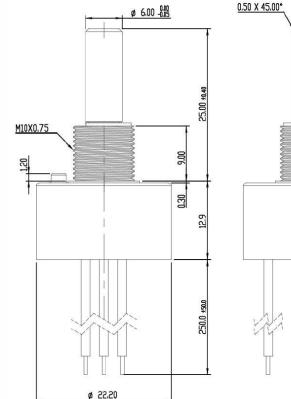
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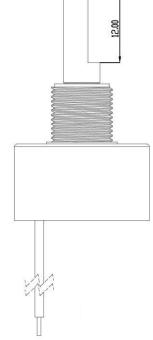


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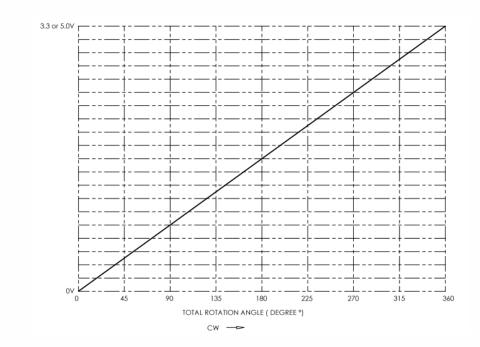


Dimension: mm Standard Tolerance: .X (1 Place): ±0.3 .XX (2 Place): ±0.13 Angle: ± 3°





Electrical Specification Series 285 Output Graph



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