

Model TSL10

None-Contact Linear Position Sensor

- ▶ Hall Effective
- ▶ Absolute Linearity $< \pm 0.15\%$
- ▶ Long life
- ▶ Analog signal
- ▶ Penal Mount



MECHANICAL		
	Body Length	37 (± 0.5) mm
	Mechanical Stroke	12 (± 1) mm
	Operating force (horizontal)	< 0.3 N
	Max mounting torque	140 Ncm
	Weight	21g

ELECTRICAL		
	Electrical Measuring Range	10 (± 0.5) mm
	Independent Linearity	$< \pm 0.3\%$
	Refresh Rate	290 (± 15) μ s
	Max Power Consumption	< 1 W
	Insulation resistance (500 VDC)	> 10 M Ω
	Supply Voltage	5 ($\pm 10\%$) VDD
	Supply Current	< 12 mA
	Temperature coefficient	< 50 PPM/K

ENVIRONMENTAL		
	Protection Class	IP54
	Min. Life	10×10^6 movements
	Operation Temperature Range	$-40^\circ\text{C} \sim +150^\circ\text{C}$
	Shock per DIN IEC	100 (11 ms)g (single event)
	Max Operating Velocity	5 m/s
	Max Operating Acceleration	5 g
	Vibration per DIN IEC 20	(10...2000 Hz, $A_{\text{max}} = 0.75$ mm)
	Storage Temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$

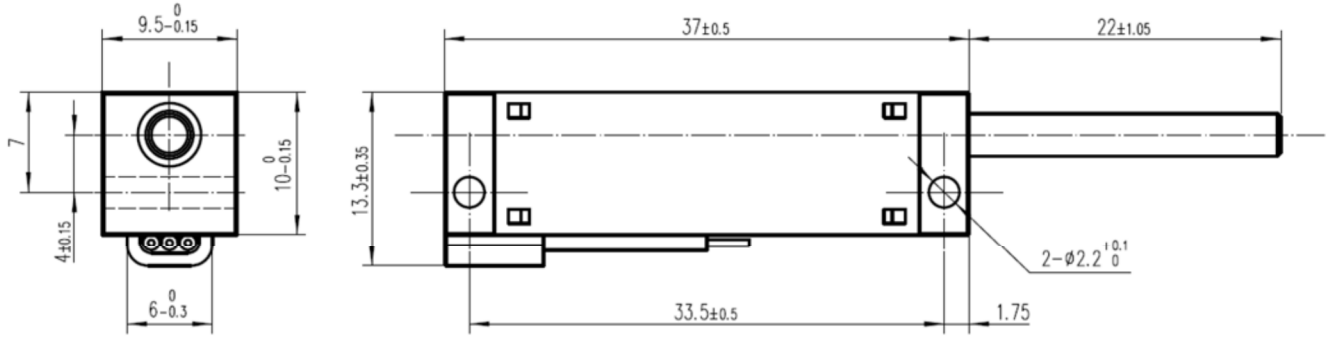
CE-CONFORMITY	
	RF noise field strength EN 55011, class B
	ESD EN 61000-4-2
	Radiated immunity EN 61000-4-3
	Burst EN 61000-4-4
	Conducted disturbances induced by RF fields EN 61000-4-6



ORDERING INFORMATION

TSL10	1	1	1	0	R	1	E
	<p>Electrical Measuring Range</p> <p>10 Standard 10 mm</p> <p>X Optional X<10 mm</p>						
	<p>Output Signal</p> <p>1 Standard 10% - 90%</p> <p>2 Standard 0% - 100%</p> <p>3 Optional 4 - 20 mA</p> <p>X Optional X% - Y%</p>						
	<p>Input Voltage</p> <p>1 Standard 5V DC</p> <p>2 Optional 10V DC</p> <p>3 Optional 12V DC</p> <p>4 Optional 24V DC</p> <p>X Optional Available for other Request</p>						
						<p>Actuating Rod Type</p> <p>R Standard Round Type</p> <p>X Optional Customized are avail</p>	
						<p>Self Reset</p> <p>1 Standard With Spring return</p> <p>2 Optional Without Spring return</p>	
						<p>Operation Temperature</p> <p>E Standard -40°C ~ +85°C</p> <p>K Standard -40°C ~ +125°C</p> <p>L Optional -40°C ~ +150°C</p>	

OUTLINE DRAWING



ACCESSORY

Lock Nut	x2
Screw	x2