

PIEZO ULT RASONIC SENSOR

Part Number: VT-US175D1901



- 1.1)Level measurement
- 1.2)Automation control
- 1.3)Proxinity
- 1.4)Obstacle avoidance
- 1.5)Robotics

Feature

- 2.1)Rugged sealed constraction.
- 2.2) Cylindrical design allows for installation in various applications.
- 2.3) Short-range measurement capabilities.



Acoustic Matching Layer

Aluminum case

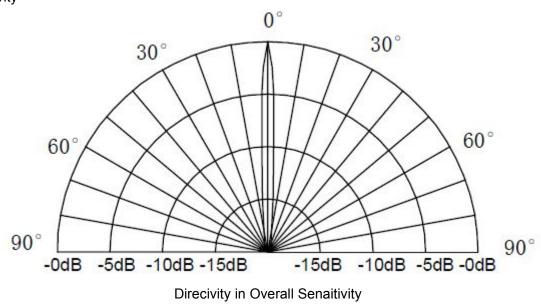
2-Ø0.8±0.2



2. Electrical Characteristics

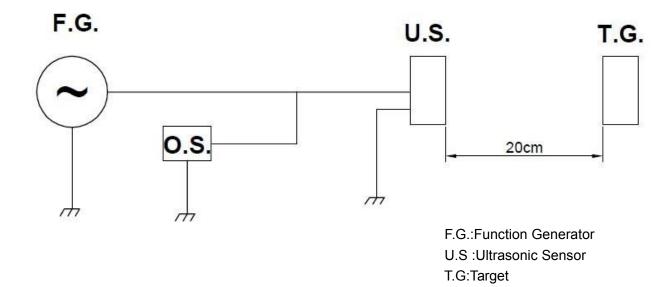
No.	Item	Unit	Specifications
1	Construction		Water Proof
2	Using Method		Dual Use
3	Center Frequency	Khz	175±10khz
4	Receive Sensitivity Echo	mV	≥1.0(driver signal:200Vp-p,175KHz,at 20cm)
5	Capacitance	pF	900pF±25% at 1KHz
6	Max. Input Voltage	Vp-p	500Vp-p
7	Directivity(-3dB)	0	7±2
8	Distance of Detection	М	0.1~2M
9	Protection class		IP65
10	Material		Aluminum
11	Operating Tem.Range	${\mathbb C}$	-20 to +80℃
12	Storage Tem.Range	${\mathbb C}$	-35 to +85℃

3.Directivity





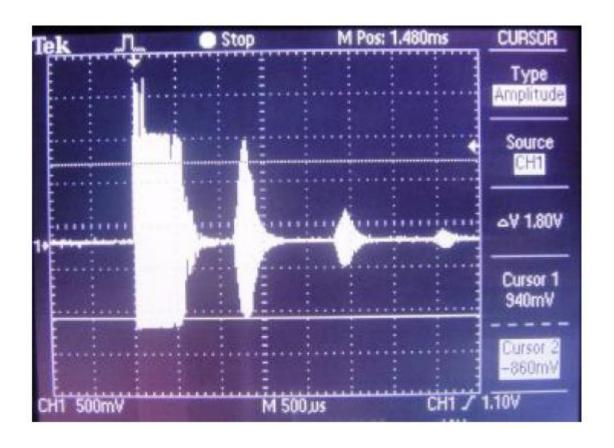
4. Test circuit



O.S.:Oscoilloscope

5.Echo sensitivity/Ringing

Driver signal:200Vp-p,20cm





6.Notice

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