

Ultrasonic Sensor (Close Structure)

Model: UC14G-X354



ELECTRICAL SPECIFICATIONS

	Condition	Parameter	Unit
Function		Dual (Receiver + Transmitter)	
Center Frequency		40 ± 1	KHz
Sensitivity For Receiver	0dB = 1V/μbar, 40KHz	Min. -74	dB
Sound Pressure Level For Transmitter	at 40KHz, 10Vrms, sine wave, 30cm	Min. 95	dB
Capacitance	at 1000Hz	1800 ± 20%	pF
Input Voltage	pulse width 0.5ms, interval 20ms	140	Vp-p
Directivity	-6dB	X-axis:100 / Y-axis:60	deg
Detectable Range		Min. 0.2	m
Decay Time		1.3	ms
Operating Temperature		-30 ~ 80	°C
Terminal		Connector	
Housing Material		Aluminum (Silver)	
Weight		3	g
Dustproof And Waterproof Level	IEC 529 edition 2.0 (1989)	IP67	

Notes: Directivity, detectable range and resolution is typical value. It can be changed by application circuit and fixing method of the sensor.

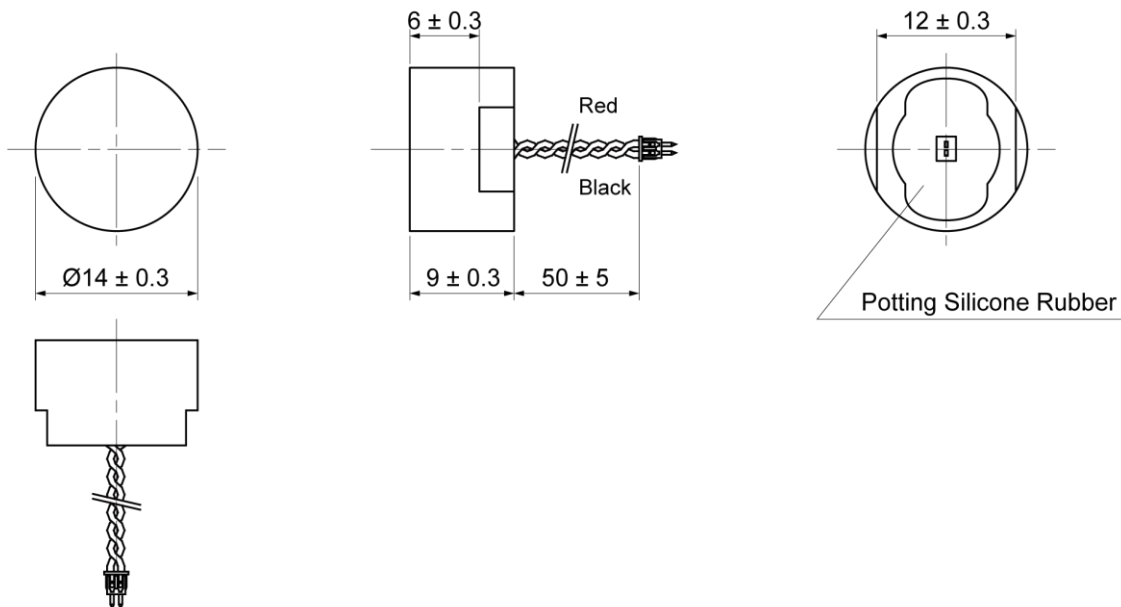
MECHANICAL DRAWING

Dimensions in mm

Wire: UL1007 AWG 30

Tolerance ±0.5mm Except Specified

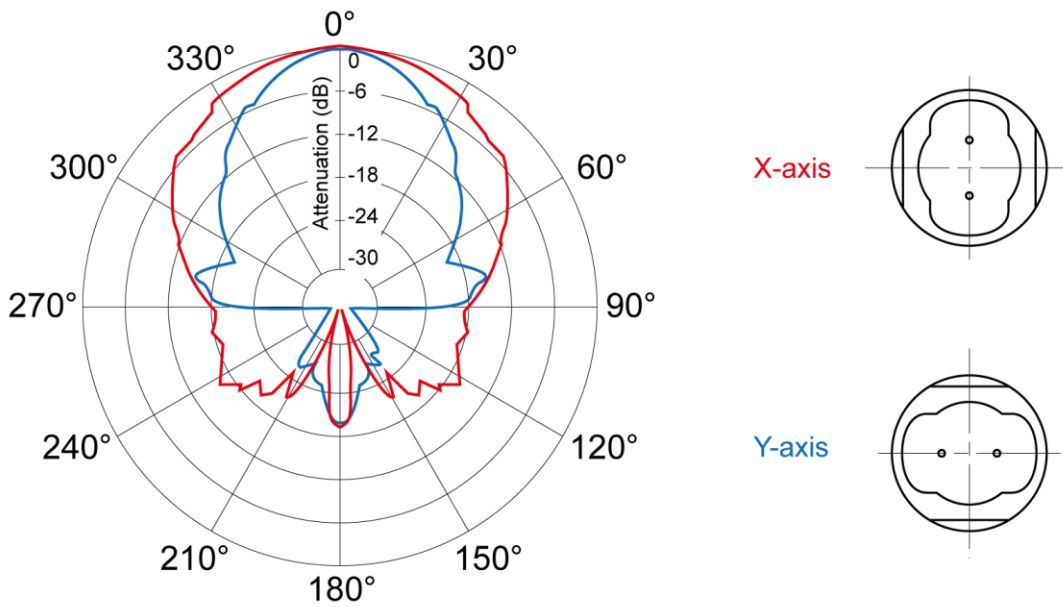
Connector: SAN 2.0



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DIRECTIVITY



Ultrasonic Sensor (Close Structure)**Model: UC14G-X354****REVISION HISTORY**

Ver	Description	Date
1.0	initial release	23 Nov 2020