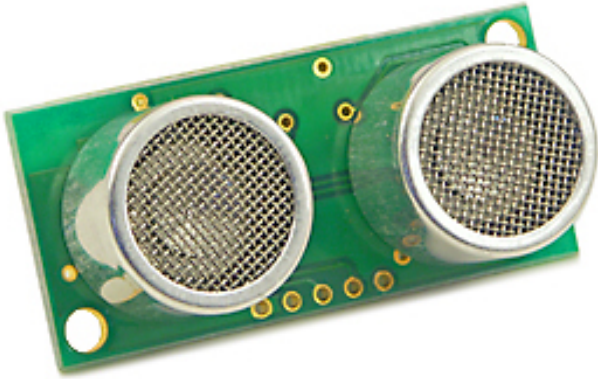


Devantech SRF04 Ranger R93-SRF04 \$29.50



This ultrasonic ranger has an approximate range of 3 cm to 3 m. This ranger has a logic line used to trigger a pulse and the echo is returned on a second line. Minimal power requirements and a compact, self contained design make this a versatile range finder.



There are a couple of requirements for the input trigger and output pulse generated by the ranger. The input line should be held low (logic 0) and then brought high for a minimum of 10 μ S. The pulse is generated on the falling edge of the input trigger. The ranger's receive circuitry is held in a short blanking interval of 100 μ S to avoid noise from the initial ping and then it is enabled to listen for the echo. The echo line is low until the receive circuitry is enabled. Once the receive circuitry is enabled, the falling edge of the echo line signals either an echo detection or the timeout (if no object echo is detected).

Specifications	
Voltage	5 V
Current	30 mA typically 50 mA maximum
Frequency	40 kHz
Min Range	3 cm (1.18 in)
Max Range	3 m (9.84 ft)
Input Trigger	10 μ S minimum, TTL level pulse
Echo Pulse	Positive TTL level signal, proportional to range
Weight	11.33 gm (0.4 oz)
Sensitivity	Detect a 3 cm (1.18 in) diameter stick at > 2 m (6.56 ft)
Connection Type	Digital

