Distance Phidget

Do you need a sensor that can measure short distances or detect the motion of objects passing by? This Phidget uses infrared light and a time-of-flight calculation to determine how far away an object is. It can report the distance of the object it's pointed at as often as every 10 milliseconds, and will throw a saturation event when the distance exceeds the sensor's maximum range. Since infrared light is what it uses for the measurement, highly reflective objects will be easier to measure.

The DST1000 connects to a VINT hub. Have a look at the "Compatible Products" tab for a list of Phidgets with VINT ports.

Product Specifications

Sensor Properties	
Sensor Type	Infrared (Time-of-Flight)
Controlled By	VINT
Measurement Distance Min	4 mm
Measurement Distance Max	* 170 mm
Measurement Distance Resolution	1 mm
Measurement Distance Noise	3 mm
Distance Sensor	
Sampling Interval Max	60 s/sample
Sampling Interval Min	10 ms/sample
Electrical Properties	
Current Consumption Max	4 mA
Current Consumption Min	20 µA
Physical Properties	
Operating Temperature Min	-40 °C
Operating Temperature Max	85 °C

* – Maximum distance depends on the reflectivity of the surface of the

object. Typical results are around 170mm, but could be as low as 100mm for some surfaces. The “200mm” listed on the enclosure is incorrect.