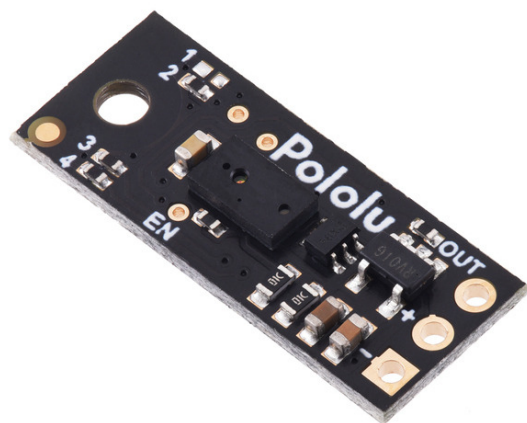


Pololu Distance Sensor with Pulse Width Output, 50cm Max



Pololu item #: 4064

Brand: [Pololu](#)

[supply outlook](#)

Status: Active and Preferred [?](#)

✓ RoHS 3

Price break Unit price (US\$)

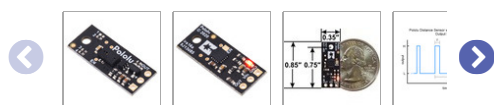
1	12.95
5	11.91
25	10.96
100	10.08

Quantity:

Add to cart

[backorders](#) allowed

Add to wish list



This small lidar-based distance sensor reports the distance of objects up to about **50 cm (20")** away with a pulsed signal similar to a hobby servo control signal. A digital microcontroller pin can be used to time the length of each high pulse, which encodes the measured distance. The sensor works over an input voltage range of 3.0 V to 5.5 V, and the 0.1" pin spacing makes it easy to use with standard solderless breadboards and 0.1" perfboards.

Note: The maximum range of 50 cm is only achievable for high-reflectance objects in good ambient conditions. Lower-reflectivity targets or poor ambient conditions will reduce the maximum range.

Alternatives available with variations in these parameter(s): maximum range [Select variant...](#)

Description Specs (11) Pictures (10) Resources (4) FAQs (0) On the blog (1)

Dimensions

Size:	0.85" × 0.35" × 0.122"
Weight:	0.4 g

General specifications

Resolution:	3 mm
--------------------	------

Maximum range:	50 cm ¹
Sampling rate:	50 Hz ²
Minimum operating voltage:	3.0 V
Maximum operating voltage:	5.5 V
Supply current:	30 mA ³
Output type:	digital pulse width

Identifying markings

PCB dev codes:	irs16a
Other PCB markings:	0J13085

Notes:

- 1** This maximum is only achievable for high-reflectance objects in good ambient conditions; lower-reflectivity targets or poor ambient conditions will reduce the maximum range.
- 2** Minimum.
- 3** Typical average current draw when enabled; disabling via the EN pin reduces it to around 0.4 mA.