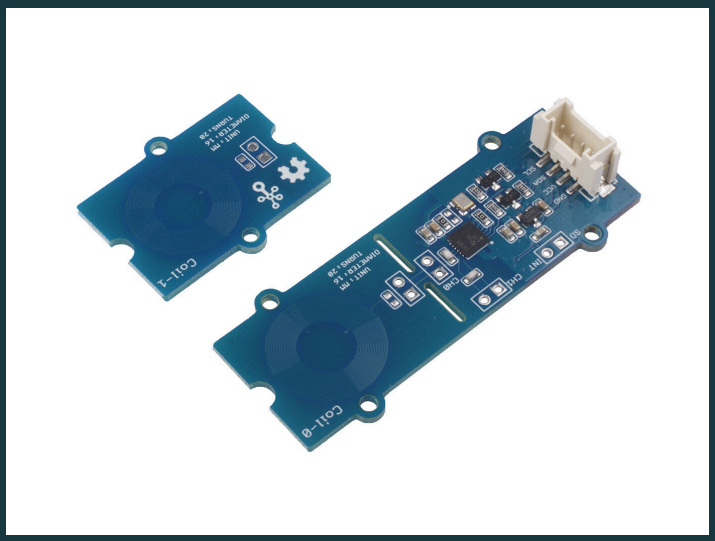
seeed studio

INDUSTRIAL PRODUCT DATASHEET

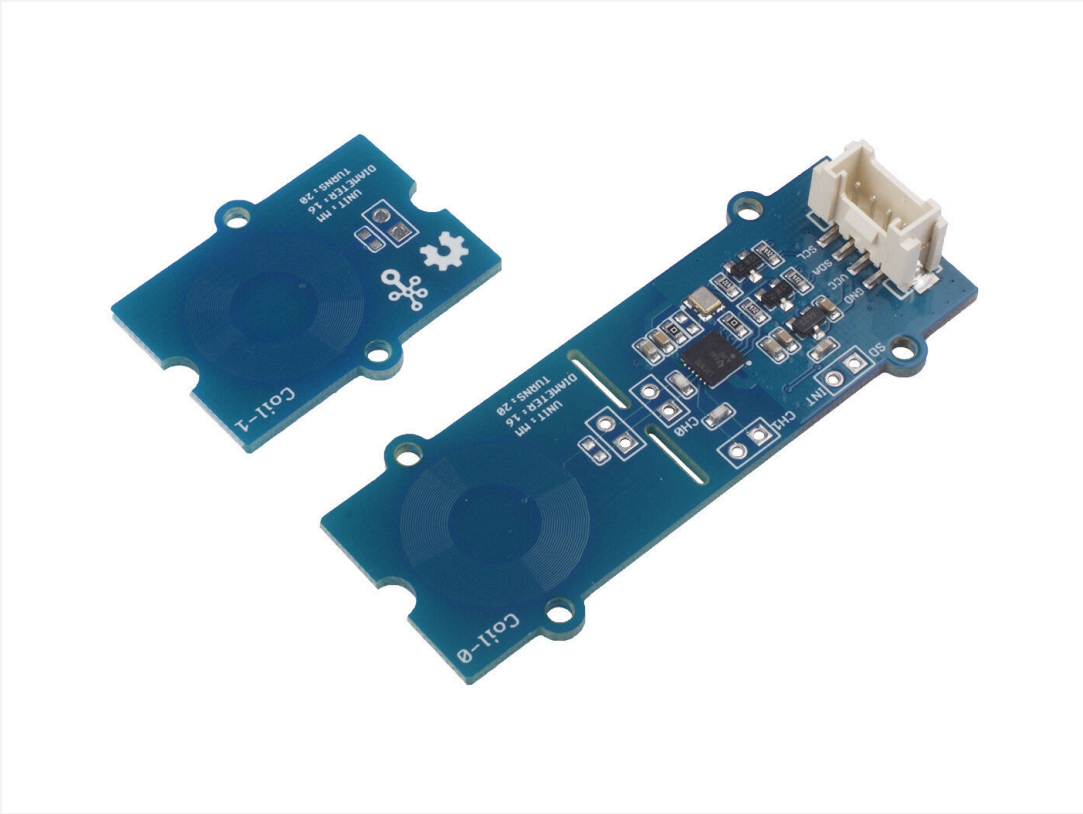
Grove - 2-Channel Inductive Sensor (LDC1612)

Grove - 2-Channel Inductive Sensor (LDC1612) provides plug-and-play 2-channel inductive sensing with >20 cm range, 1 kHz to 10 MHz frequency, anti-interference, low power, for encoders, buttons, keypads, sliders, metal detection...

SKU	UPDATED	PRICE
101020599	2026-11-03 03:40:02	$16.40(Excl. VAT)



Overview



The Grove - 2-Channel Inductive Sensor (LDC1612) delivers 2-channel inductive sensing with remote sensor position >20 cm, a 1 kHz to 10 MHz frequency range, and matched sensor drive. It offers anti-interference and durability with immunity to DC magnetic fields and magnets, aging compensation, multiple reference clocking options, 35 µA sleep and 200 nA shutdown modes, and a Grove unified socket for plug-and-play use in applications such as encoders, buttons, keypads, slider buttons, metal detection, POS and EPOS, and flow meters.

Key Features

01 **Excellent sensing range**

Remote sensor position of >20 cm and supports wide sensor frequency range of 1 kHz to 10 MHz and 2 channels with matched sensor drive

02 **Powerful anti-interference and outstanding durability**

Supports operation in harsh environments, Immunity to DC magnetic fields and magnets and aging compensation

03 **Multiple reference clocking options**

Included internal clock for lower system cost and support for 40 MHz external clock for higher system performance.

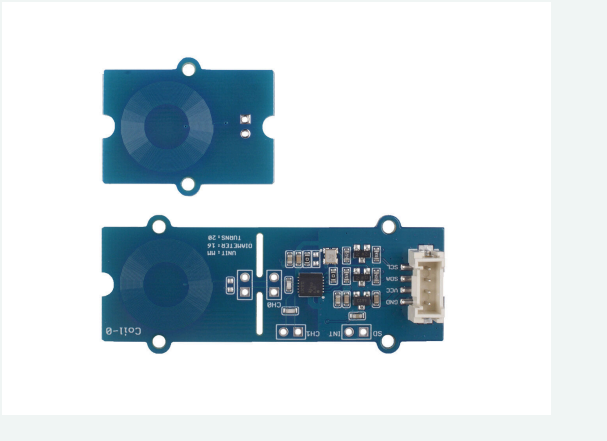
04 **Low power comsumption**

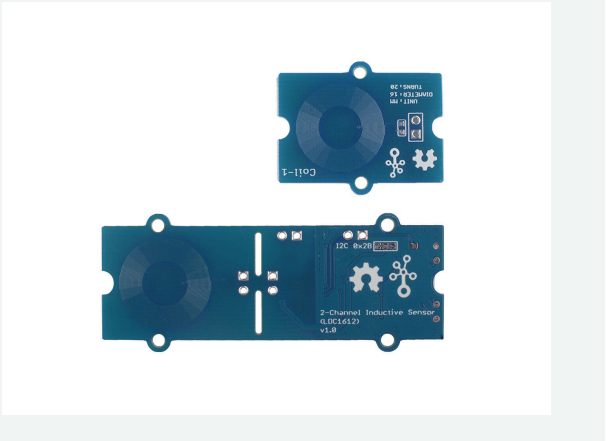
35 μA low power sleep mode and 200 nA shutdown mode

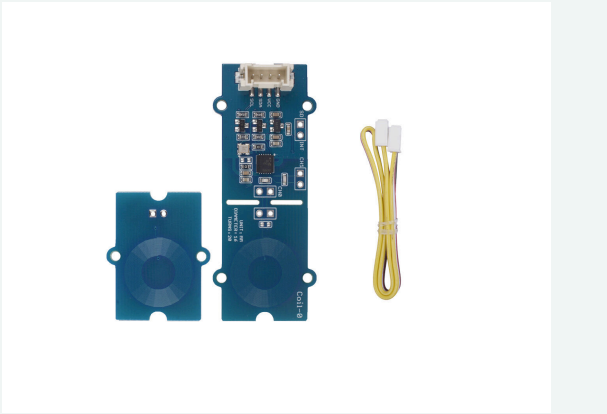
05 **Grove unified socket**

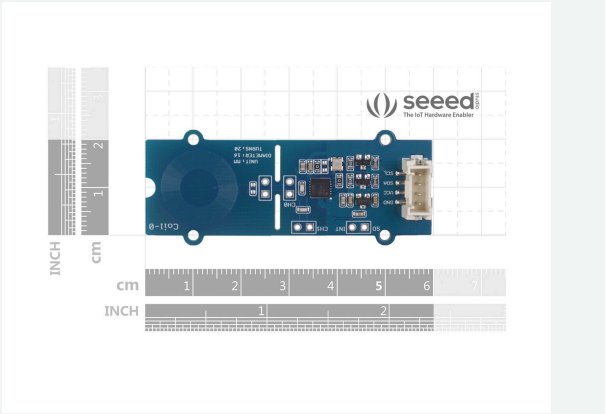
The sensor ensures "Plug and Play" and could be versatile for various applications.

Product Gallery









Applications

- Knobs in consumer, appliances, and automotive
- Linear and rotational encoders
- Buttons in home electronics, wearables, manufacturing, and automotive
- Keypads in manufacturing and appliances
- Slider buttons in consumer products
- Metal detection in industrial and automotive
- POS and EPOS
- Flow meters in consumer and appliances

Resource Links

- https://www.seeedstudio.com/Grove-2-Channel-Inductive-Sensor-LDC1612.html
- Grove - 2-Channel Inductive Sensor(LDC1612) Eagle Files
- Grove - 2-Channel Inductive Sensor(LDC1612) Software Library
- Datasheet LDC1612

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com