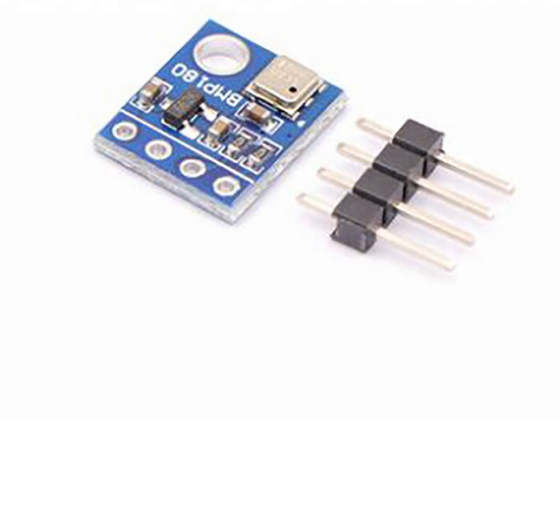


## ALLNET 4duino Sensor Attitude, Orientierungssensor



### EAN CODE



"1.Introduction has a 12C interface in single 8-pin packaging compatible with ambient light sensor and proximity sensor with IR LED. Ambient light sensor uses double-light diode to approximate vision response of human eyes at 0.01 lux low lumen. High sensitivity makes component operate behind dark-color grass. After complete calibration, proximity sensor can detect 100mm-object. It is free from factory calibration of terminal device and sub-assembly. Exposed from bright sunshine to dark room, proximity detecting works well. Adding micro-optical lens can improve the efficiency of transmitting and receiving IR energy,so to decrease total consumption. Built-in state machine can make component enter into low consumption mode with a low average power consumption.

### 2.Parameters

Working voltage

DC 3.3-3.8V

Output current 0-20mA

Range of temperature -40°—85°

3.Features  
An optical module integrated ALS, IR LED , and proximity detector  
Ambient light sensing, approximate to vision respond of human eyes  
Programming interrupter function with threshold value of upper limit and lower limit  
Up to 16 bit of resolution rate  
High sensitivity when operating behind dark-color grass 0.01lux low lumen  
Proximity sensing, detecting distance up to 100 mm  
Integrated IR LED and synchronizing LED driver  
Free from factory calibration of proximity sensor  
Programmable waiting timer, - 90?A(typical value) as consumption of waiting state  
Programmable range from 2.7 ms to grater than 8 s  
Compatible with 12C interface, up to 400kHz (I2C quick mode)  
Special interrupt pin  
Consumption at sleep mode for - 2.2A (typical value)  
Small packaging 3.94 (length) x 2.36 (width) x 1.35 (height) mm"

