



## E18-D80NK Adjustable Infra-Red (IR) Proximity Sensor

E18-D80NK Infrared Obstacle Avoidance Sensor is a low-cost IR Proximity Sensor with an adjustable range of 3cm to 80cm. E18-D80 IR Sensor is widely used in robots to avoid obstacles, industrial assembly lines, Reverse Car Parking, and many other automation applications. The detection range can be adjusted according to the application using the multi-turn pot-meter that is located at the back of the sensor.



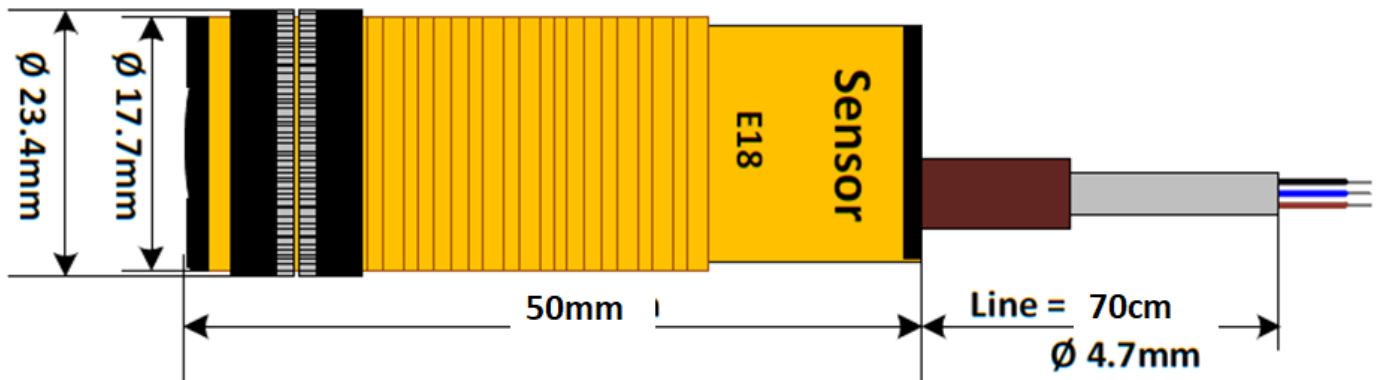
**SKU: SSR1069**

### **Brief Data:**

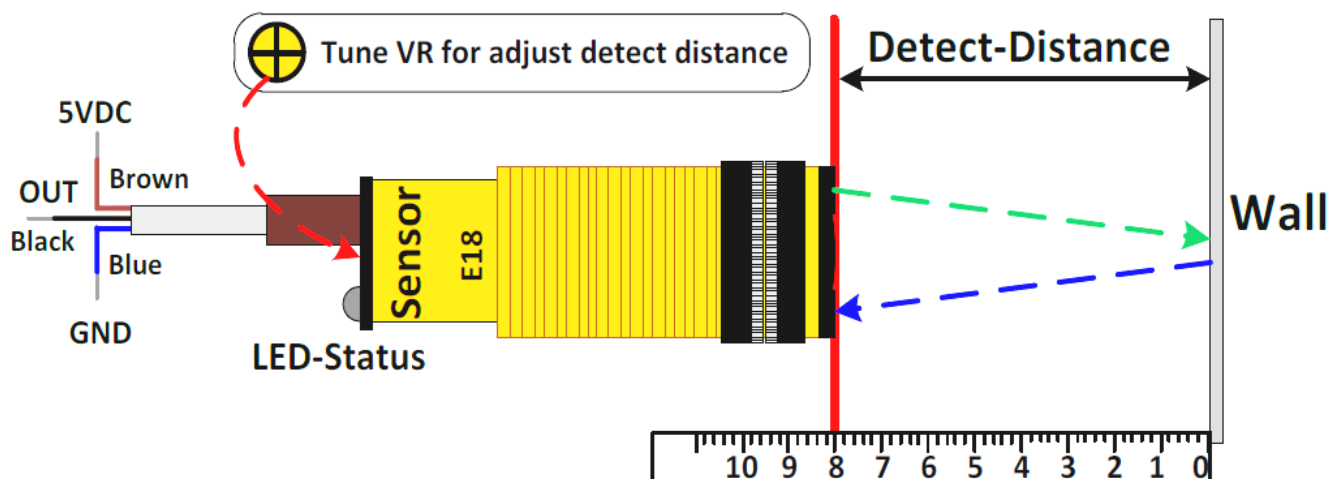
- Operating Voltage: 5Vdc.
- Current consumption: > (25~100)mA.
- Dimension: Ø17mm (diameter) x 45mm (length).
- Cable length: 45cm.
- Detection of objects: Transparent or Opaque.
- Diffuse reflective type.
- Sensing range: 3cm to 80cm (depends on obstacle surface).
- NPN output (normally high).
- Environment temperature: -25 °C ~ 55 °C.
- Weight: 42g.

## Mechanical Dimension:

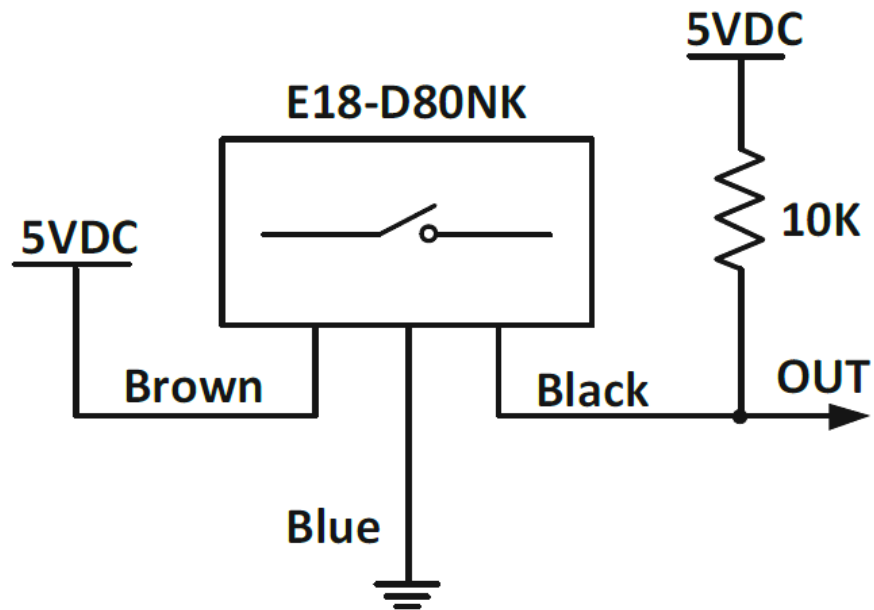
Unit: mm



## Pin Functional Diagram:



### Schematic Diagram:



### Web Resources:

- [https://create.arduino.cc/projecthub/ashish\\_cd/interfacing-e18-d80nk-ir-proximity-sensor-with-arduino-a4bbd0](https://create.arduino.cc/projecthub/ashish_cd/interfacing-e18-d80nk-ir-proximity-sensor-with-arduino-a4bbd0)
- <https://robojax.com/learn/arduino/?vid=robojax-E18-D80NK-IR-Switch>



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