

Ring Inductive Proximity Sensors

Product Overview

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Description

DFRobot Ring Inductive Proximity Sensors are designed to detect metal objects entering or passing through the ring. These sensors operate on a 6V to 36V power supply and offer NPN output. The ring inductive proximity sensors feature less than 1ms response time, high accuracy, and stable performance. These sensors come with an onboard LED for indicating detection status that lights up when a metal object is detected and a sensitivity adjustment knob that can be rotated clockwise to increase sensitivity.



The ring inductive proximity sensors are sealed in a rugged and anti-rust house that is made of brass nickel-plated flame-retardant material. These sensors are IP66 rated and have an operating temperature range of -25°C to 65°C. Applications include sensing small metal parts such as screws, washers, and nuts, or monitoring wire breakages and jams.

Specifications

- 6V to 36V voltage range
- 3mm and 6mm hole diameter
- 300mA current
- 100mm detection distance
- Output:
 - NPN (normally-open)
- Detectable object:
 - Metal
- 2m wire length
- Sensing type:
 - Inductive
- Level signal:
 - High/low level
- Operating temperature range:
 - -25°C to 65°C
- Humidity:
 - 35% to 95% HR
- 300Hz switch frequency
- Dimension:
 - 68mm x 39mm x 20mm/2.68inch x 1.54inch x 0.79inch

Applications

- Sensing small metal parts such as screws, washers, and nuts
- Monitoring wire breakages and jams

Mouser Part Numbers

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