Ring Inductive Proximity Sensor (8mm diameter)

FIT0759

Product Overview

01/11/2023

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The Ring Inductive Proximity Sensor (8mm hole diameter) from DFRobot is designed to detect metal objects entering or passing through the ring. This sensor features less than 1ms response time, high accuracy, and stable performance that can detect fast-moving small metal objects. The proximity sensor operates from a 6V to 36V power supply range, withstands -25°C to 65°C temperature range, supports IP66 protection degree, and offers NPN output.

This ring inductive proximity sensor comes with an onboard LED for indicating detection status and a sensitivity adjustment knob and is available in 68mm x 39mm x 20mm dimensions. The ring inductive proximity sensor is ideal for sensing small metal parts such as screws, washers, nuts, and monitoring wire breakages and jams.

Features

- <1ms response time
- High accuracy
- Stable performance
- Inductive sensing type
- High/low signal level

Kit Contents

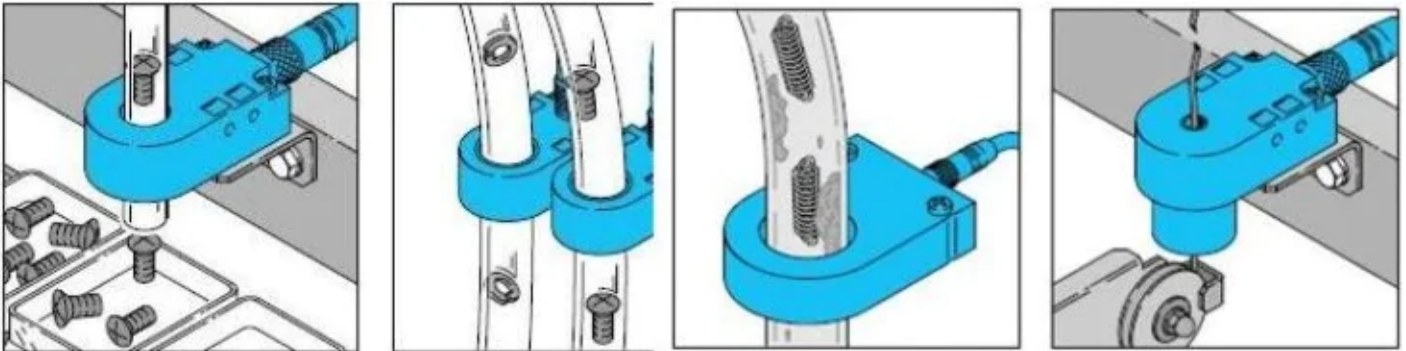- 1x Ring inductive proximity sensor - 8mm

Applications

- Screws, washers, and nuts
- Monitoring wire breakages and jams

Specifications

- 6V to 36V power supply range
- 8mm hole diameter
- 300mA current
- 10mm detection distance
- 2m wire length
- -25°C to 65°C operatikng temperature range
- 35%HR to 95%HR operating humidity range
- 300Hz switching frequency
- 68mm x 39mm x 20mm dimensions

Application Overview

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-8mm-proximity-sensor/