



WHADDA Inductive Proximity Sensor Detection Switch WPSE476 User Manual

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Introduction



To all residents of the European Union

Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Safety Instructions



Read and understand this manual and all safety signs before using this appliance.



For indoor use only.

- This device can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

General Guidelines

- Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorised way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Keep this manual for future reference.

What is Arduino®

Arduino® is an open-source prototyping platform based on easy-to-use hardware and software. Arduino® boards are able to read inputs – light-on sensor, a finger on a button or a Twitter message – and turn it into an output – activating of a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so, you use the Arduino programming language (based on Wiring) and the Arduino® software IDE (based on Processing). Additional shields/modules/components are required for reading a twitter message or publishing online. Surf to www.arduino.cc for more information.

Product overview

The Whadda Inductive proximity sensor detection switch accurately detects metal objects that are within 4 mm of the sensor head. When a metal object is detected, the built-in red LED lights up and the black signal wire is internally shorted to ground through an NPN transistor. When no object is detected, the signal is floating/high impedance.

Note: It is recommended to supply the sensor with no more than 6 V, and to put a series protection resistor between the signal output of the sensor and digital input of your board when connected to 5 V logic, such as Arduino® compatible boards.

Specifications

Supply voltage: 6 – 36 V DC

Sensor model: LJ12A3-4-Z / BX

Detection distance: 4 mm

Output signal: NPN (high impedance when no object is present, or ground when object is detected)

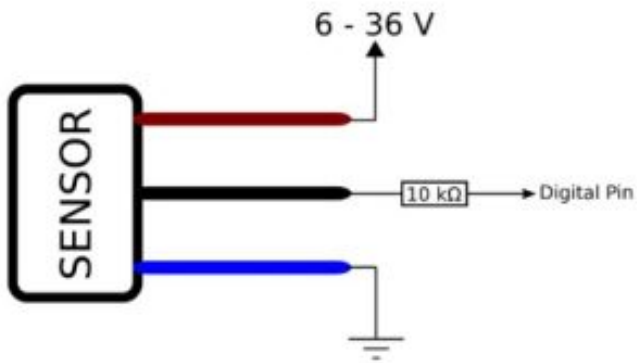
Cable length: ± 110 cm

Weight: 44 g




Wiring description

Pin	Name	Arduino® connection
BN (Brown wire)	Supply voltage (6 – 36 V DC)	–
BK (Black wire)	Signal output	Digital Pin
BU (Blue wire)	Ground	GND



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Documents / Resources

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