

Joy-it Button-Black-Mini

Joy-it Button-Black-Mini User Manual

Model: Button-Black-Mini

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Joy-it Button-Black-Mini. Please read this manual carefully before using the product to ensure proper functionality and longevity.

2. PRODUCT OVERVIEW

The Joy-it Button-Black-Mini is a durable and robust micro switch designed as an input device for various single-board computers. It is commonly used in arcade projects and other applications requiring a reliable push-button interface.



Figure 2.1: Top view of the Joy-it Button-Black-Mini. This image displays the smooth, circular black surface of the button, indicating its primary interface for user interaction.



Figure 2.2: Side view of the Joy-it Button-Black-Mini. This perspective highlights the button's cylindrical housing and the integrated tabs designed for secure panel mounting.

Key Features:

- **Durable Construction:** Built for longevity and robust performance.
- **Micro Switch:** Ensures reliable and responsive input.
- **Wide Compatibility:** Suitable for Arduino, Banana Pi, Cubieboard, Raspberry Pi (all models including A+, A, B, B+, 2 B, 3 B).
- **Simple Integration:** Designed as an input device for single-board computer projects.

3. SETUP AND INSTALLATION

The Joy-it Button-Black-Mini is designed for straightforward integration into your electronic projects. It typically requires connection to the GPIO pins of a compatible single-board computer.



Figure 3.1: Bottom view of the Joy-it Button-Black-Mini. This image reveals the integrated micro switch mechanism and the two electrical terminals for wiring connections.

Installation Steps:

1. **Prepare Mounting Hole:** Ensure your project enclosure or panel has a circular hole with a diameter suitable for the button's base (approximately 27.1 mm).
2. **Insert Button:** Gently push the button into the prepared hole until the mounting tabs snap into place, securing the button.
3. **Connect Wiring:** Identify the two terminals on the underside of the button (as shown in Figure 3.1). These are typically for signal and ground connections. Refer to your single-board computer's documentation for specific wiring diagrams for input devices.
4. **Test Connection:** Before final assembly, perform a basic test to ensure the button registers input correctly with your chosen single-board computer.

Note: The button comes with an integrated micro switch. No external switch components are required.

4. OPERATING THE BUTTON

The Joy-it Button-Black-Mini functions as a momentary push-button switch. When pressed, it completes an

electrical circuit, and when released, it breaks the circuit. The specific action triggered by pressing the button depends on the software or circuit design it is integrated into.

Basic Operation:

- To activate the button, apply gentle pressure to its top surface until you feel a click.
- Release the button to return it to its original state.

Ensure your software or microcontroller is programmed to detect the state change (press/release) of the button's connected pin.

5. MAINTENANCE

The Joy-it Button-Black-Mini is designed to be low-maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the surface of the button. Avoid using abrasive cleaners or solvents, which may damage the plastic.
- **Environment:** Store and operate the button in a dry environment, away from excessive dust, moisture, and extreme temperatures.
- **Physical Stress:** Avoid applying excessive force or impact to the button, as this can damage the internal micro switch or the housing.

6. TROUBLESHOOTING

If you encounter issues with your Joy-it Button-Black-Mini, consider the following troubleshooting steps:

- **Button Not Responding:**
 - Check all wiring connections to ensure they are secure and correctly connected to the single-board computer's GPIO pins.
 - Verify that your software or code is correctly configured to read input from the specific pin the button is connected to.
 - Test the button with a multimeter to confirm the micro switch is functioning (completing the circuit when pressed).
- **Intermittent Response:**
 - Ensure connections are not loose.
 - Check for any debris or foreign objects that might be obstructing the button's movement or the micro switch.

If problems persist, consult the documentation for your single-board computer or seek assistance from an electronics expert.

7. SPECIFICATIONS

Attribute	Value
Brand	Joy-it
Model	Button-Black-Mini

Manufacturer	Button-Black-Mini
Part Number	Button-Black-Mini
Colour	Black
Product Dimensions (Height)	33.86 mm
Product Dimensions (Width)	23.5 mm
Base Diameter	27.1 mm
Cross Diameter	23.5 mm
Total Height	33.9 mm
Transition Height	27.5 mm
Accessory Type	Input Device (for single-board computers)
Batteries Included	No
Batteries Required	No
ASIN	B07C7FLVV7
Date First Available	23 April 2018

8. WARRANTY INFORMATION

Joy-it products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Joy-it website or contact your point of purchase. Keep your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please contact your retailer or the manufacturer directly. You may also find additional resources and FAQs on the official Joy-it website.



Figure 9.1: Joy-it brand logo. This image displays the official logo of the manufacturer, Joy-it.

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JOY-IT

ARCADE BUTTONS WITH MICROSWITCHES

Mini arcade buttons in high arcade quality

MAIN FEATURES

Load Limit12V

MaterialNylon

Available ColorsBlack, Blue, Green, Magenta, White, Yellow

DIMENSIONS

Ø Surface32.8mm

Installation diameter29.5mm

Total Height29.9mm

FURTHER DETAILS

Article No.

Button-Black-Mini
Button-Blue-Mini
Button-Green-Mini
Button-Magenta-Mini
Button-White-Mini
Button-Yellow-Mini

EAN

4250236815992-Black
4250236816036-Blue
4250236816043-Green
4250236816050-Magenta
4250236816029-White
4250236816012-Yellow

Customs tariff No.8536501100

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Die arcade buttons von Joy-IT have high-quality microswitches which comply with the quality from arcade buttons in a video hall, where they have a long life-time under the hardest circumstances.

[pdf] Datasheet Dimension Guide Diagram

Button Mini Datasheet indd ARCADE BUTTONS WITH MICROSWITCHES joy it net files Produkte XXX

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ARCADE BUTTONS WITH MICROSWITCHES Mini arcade buttons in high arcade quality MAIN FEATURES Load Lim ... ion diameter Total Height FURTHER DETAILS Article No. EAN Customs tariff No. 32.8mm 29.5mm 29.9mm Button-Black-Mini Button-Blue-Mini Button-Green-Mini Button-Magenta-Mini Button-White-Mini Button-Ye...

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JOY-IT

ARKADE-BUTTONS MIT MIKROSCHALTER

Mini-Arkade-Buttons in hochwertiger Spielhallenqualität

HAUPTMERKMALE

Nennlast resistiv10 mA / 12 V DC

MaterialNylon

Betriebsarttastend

Erfälltliche FarbenSchwarz, Blau, Grün, Magenta, Weiß, Gelb

Anschlüsse2x NO

LieferumfangButton, Mikroschalter

ABMESSUNGEN

Abmessungen Ø 30 mm

Montageloch Ø 32.8 x 29.9 mm

WEITERE DETAILS

Artikelnr.

Button-Black-Mini
Button-Blue-Mini
Button-Green-Mini
Button-Magenta-Mini
Button-White-Mini
Button-Yellow-Mini

EAN

4250236815992-Schwarz
4250236816043-Blau
4250236816043-Grün
4250236816050-Magenta
4250236816029-Weiß
4250236816012-Gelb

Zollartnummer8536501100

Die Arkade Buttons von Joy-IT werden inklusive sehr hochwertiger Mikroschalter geliefert und entsprechen „Spielhallenqualität“, welche eine besonders lange Lebensdauer auch unter härtesten Umständen garantieren.

[pdf]

Datenblatt Deutsch 21 10 2024 405 5 KB Arcade Mini Buttons mit Mikroschalter Joy IT Button XXX 21 joy it net files Produkte Button |||

ARKADE-BUTTONS MIT MIKROSCHALTER Mini-Arkade-Buttons in hochwertiger Spielhallenqualitt Die Arkade- ... n tastend Schwarz, Blau, Grn, Magenta, Wei, Gelb 2x NO Button, Mikroschalter 30 mm 32.8 x 29.9 mm Button-Black-Mini Button-Blue-Mini Button-Green-Mini Button-Magenta-Mini Button-White-Mini Button-Ye...

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JOY-IT

ARCADE BUTTONS WITH MICROSWITCHES

Mini arcade buttons in high arcade quality

MAIN FEATURES

Nominal load resistive10 mA / 12 V DC

MaterialNylon

Operating modemomentary

Available colorsBlack, Blue, Green, Magenta, White, Yellow

Connections2x NO

Scope of deliveryButton, microswitch

DIMENSIONS

Dimensions of mounting hole Ø 30 mm

Overall dimensions Ø 32.8 x 29.9 mm

FURTHER DETAILS

Article No.

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Die arcade buttons from Joy-IT have high-quality microswitches which comply with the quality from arcade buttons in a video hall, where they have a long life-time under the hardest circumstances.

[pdf] Datasheet Dimension Guide Diagram

Datenblatt Englisch 21 10 2024 403 99 KB Arcade Mini Buttons mit Mikroschalter Joy IT Button XXX

Datasheet 21 joy it net files Produkte Button |||

ARCADE BUTTONS WITH MICROSWITCHES Mini arcade buttons in high arcade quality MAIN FEATURES Nomial I ... hole Overall dimensions FURTHER DETAILS Article No. EAN Customs tariff No. 30 mm 32.8 x 29.9 mm Button-Black-Mini Button-Blue-Mini Button-Green-Mini Button-Magenta-Mini Button-White-Mini Button-Ye...

lang:it score:14 filesize: 403.99 K page_count: 2 document date: 2024-10-21