

BOSYTRO JTKG-off

BOSYTRO Single-Phase 230V On/Off Safety Switch (Model JTKG-off) Instruction Manual

Brand: BOSYTRO | Model: JTKG-off

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your BOSYTRO Single-Phase 230V On/Off Safety Switch. Please read these instructions carefully before installation and operation to ensure proper function and to prevent injury or damage.

This electromagnetic safety switch is designed to provide a quick and convenient method for cutting power to various power tools and machinery, enhancing user safety, especially in emergency situations.

2. SAFETY INSTRUCTIONS

WARNING: Always disconnect power before performing any installation, maintenance, or troubleshooting.

- Ensure the power supply matches the switch's specifications (230V single-phase).
- Do not operate the switch with wet hands or in wet conditions unless specifically designed for such environments (this switch is IP55 rated, but general electrical safety applies).
- Mount the switch securely to a stable surface to prevent accidental dislodgement.
- Regularly inspect the cables and housing for any signs of damage. Do not use if damaged.
- This switch is intended for use with power tools and machinery. Do not use for purposes other than its intended design.
- In case of a power outage or circuit interruption, the switch is designed to automatically cut power, preventing accidental restart when power is restored.

3. PRODUCT OVERVIEW

The BOSYTRO Single-Phase 230V On/Off Safety Switch is an electromagnetic switch designed for enhanced safety and convenience when operating power tools. It features a robust design and specific safety mechanisms.

Key Features:

- **High Safety:** Allows for quick, hands-free shutdown using knees, thighs, or hips, especially useful for tools like router tables where hands are occupied.
- **Circuit Protection:** An electromagnet holds the "ON" button. In case of a short circuit or power interruption, the electromagnet releases, cutting power to the tool and preventing automatic restart.
- **Robust Cables:** Includes a 50 cm female cable for tool connection and a 100 cm cable for connection to a standard power outlet, designed for workshop use.
- **Easy Mounting:** Can be securely mounted to various materials using screws.
- **Wide Application:** Suitable for router tables, table saws, drills, band saws, woodworking machines, and other high-speed cutting tools.
- **Durable Construction:** Made from sturdy and highly resistant plastic.
- **IP55 Waterproof Rating:** Provides effective protection against rain and ingress of liquids, extending product lifespan.

Größe Des Produkts

Kompakte Größe, einfach zu benutzen



Figure 3.1: Overview of the BOSYTRO Single-Phase 230V On/Off Safety Switch.

BOSYTRO

STOP/OFF 220V Einphasige Ein Aus Schalter

So können Sie eine sichere, effiziente und gesunde Arbeitsweise erleben

-  automatischer netzausfall
Stromkreisschutz
-  kein Handschalter nötig
Sicher Und Effizient
-  sicherheitsschutz
IP55 Wasserdicht



Figure 3.2: Key features of the BOSYTRO safety switch, including automatic power failure protection, no manual switch needed, safety, efficiency, and IP55 waterproof rating.

4. SPECIFICATIONS

Feature	Specification
Brand	BOSYTRO
Model Number	JTKG-off
Dimensions (L x W x H)	11 x 6.5 x 6 cm
Weight	520 Grams
Material	Acrylonitrile Butadiene Styrene (ABS)
Voltage	230 Volts (Single-Phase) <i>(Note: Some specifications mention 110V/220V, but product title indicates 230V)</i>
Power	1491.4 Watts
Switch Type	3-way (On-Off)
Electrical Plug Type	Screw-mounted
Certifications	CE
Included Components	1 x Single-Phase 230V On/Off Switch
Cable Length (Input)	100 cm (for connection to standard outlet)
Cable Length (Output)	50 cm (for connection to power tool)
IP Rating	IP55 (Waterproof)

Gut Wasserdicht

Wasserdicht nach IP55, wirksamer Schutz gegen die Auswirkungen von Regen.



IP55

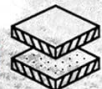


Gute Wasserdichtigkeit

Effektive Verlängerung der Nutzungsdauer

Gute Abdichtung

Verhinderung des Eindringens von Flüssigkeiten



Hohe Stabilität

Langfristige Verfügbarkeit



Figure 4.1: Product dimensions and cable lengths. The input cable is 100cm, and the output cable to the tool is 50cm.

Gut Wasserdicht

Wasserdicht nach IP55, wirksamer Schutz gegen die Auswirkungen von Regen



Figure 4.2: The switch features an IP55 waterproof rating, providing protection against rain and liquid ingress.

5. SETUP AND INSTALLATION

1. **Choose a Mounting Location:** Select a stable and easily accessible location near your power tool or machinery. Ensure the location allows for convenient operation, especially for hands-free emergency stops.
2. **Secure Mounting:** Use appropriate screws (not included) to securely mount the switch to the chosen surface. The robust plastic housing is designed for durability.
3. **Connect to Power Outlet:** Plug the 100 cm input cable of the safety switch into a standard 230V power outlet.
4. **Connect Power Tool:** Plug your power tool's power cord into the 50 cm female output cable of the safety switch.
5. **Test Functionality:** Before beginning work, perform a test to ensure the switch operates correctly.

Einfach Zu Installieren Und Zu Verwenden

Hergestellt aus hochwertiger elektromagnetischer Spule



Figure 5.1: The switch is designed for easy installation using screws on various surfaces.

6. OPERATING INSTRUCTIONS

1. **To Turn On:** Press the green "ON" button. The electromagnet inside the switch will engage, holding the button down and supplying power to the connected tool.
2. **To Turn Off (Normal Operation):** Press the red "OFF" button. This will disengage the electromagnet and cut power to the tool.
3. **Emergency Stop:** In an emergency, or when hands are occupied, you can quickly press the large red "OFF" paddle with your knee, thigh, or hip to immediately cut power to the tool. This feature significantly enhances safety.

Der Not-Aus-Schalter ist sicherer

Die Wahrscheinlichkeit, dass das Werkstück aus der Maschine fliegt, ist geringer, wenn beide Hände das Werkstück greifen.



Mit diesem Not-Aus-Schalter müssen Sie ihn nicht mehr mit den Händen schließen, wodurch die Verletzungsgefahr durch das Greifen des Schalters bei laufender Maschine entfällt.

Figure 6.1: Demonstrating the hands-free emergency stop feature, allowing quick power cutoff using the knee.

Notausschalter Mit Guter Sicherheitsleistung

Sicherere Arbeitstätigkeiten mit beidhändiger Bedienung der Geräte



Figure 6.2: The design promotes safer working practices by allowing hands to remain on the workpiece during an emergency stop.

7. MAINTENANCE

The BOSYTRO safety switch is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity and reliable operation:

- **Regular Cleaning:** Keep the switch housing clean and free from dust, sawdust, and debris. Use a dry or slightly damp cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Cable Inspection:** Periodically inspect the input and output cables for any signs of wear, cuts, fraying, or damage. Ensure the plugs are secure and free from corrosion. Replace the unit if cables are damaged.
- **Mounting Security:** Check the mounting screws periodically to ensure the switch remains securely attached to its surface. Tighten if necessary.
- **Environmental Protection:** While rated IP55, avoid prolonged exposure to extreme moisture or direct water jets to maximize lifespan.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your safety switch.

Problem	Possible Cause	Solution
Switch does not turn on (green button does not stay pressed).	<ul style="list-style-type: none"> • No power from the wall outlet. • Power outage or circuit interruption. • Faulty internal electromagnet. 	<ul style="list-style-type: none"> • Check the wall outlet with another device. • Verify power supply to the area. • The switch is designed to prevent automatic restart after power loss. If power is restored, you must manually press the green button again. If the issue persists after confirming power, the unit may be faulty and requires replacement.
Connected tool does not receive power.	<ul style="list-style-type: none"> • Switch is in "OFF" position. • Tool's power cord is not fully inserted into the switch's output. • Tool itself is faulty. • Internal wiring issue within the switch. 	<ul style="list-style-type: none"> • Press the green "ON" button. • Ensure the tool's plug is fully seated. • Test the tool by plugging it directly into a wall outlet (bypassing the safety switch). • If the tool works directly but not through the switch, the switch may be faulty and requires replacement.
Switch feels loose after mounting.	<ul style="list-style-type: none"> • Mounting screws are loose. • Mounting surface is unstable. 	<ul style="list-style-type: none"> • Tighten mounting screws. • Relocate the switch to a more stable mounting surface.

Stromkreisschutzfunktion

Hergestellt aus hochwertiger elektromagnetischer Spule

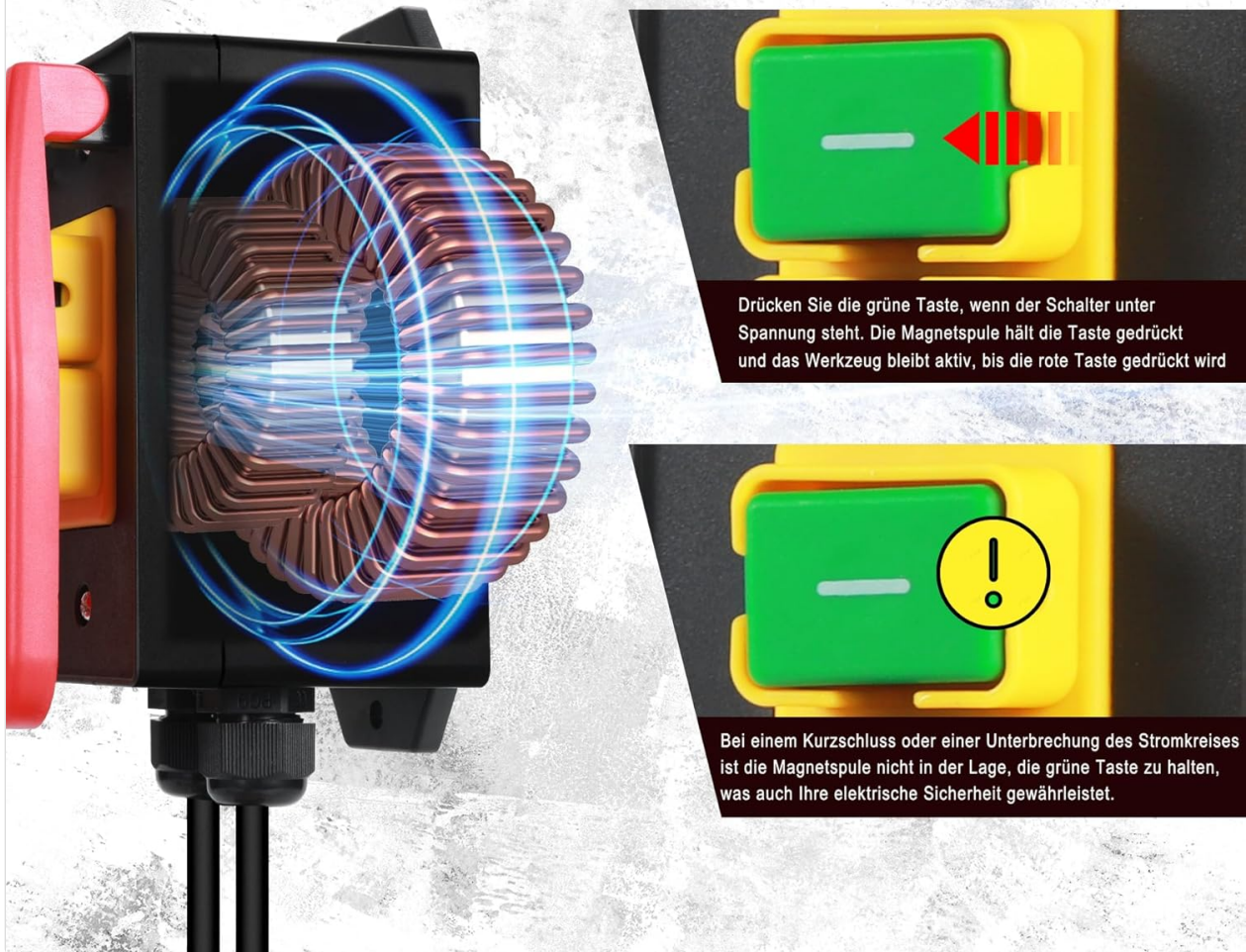


Figure 8.1: Illustration of the electromagnetic coil mechanism that provides circuit protection by disengaging during power interruptions.

9. WIDE APPLICATION EXAMPLES

The BOSYTRO safety switch is versatile and can be used with a variety of power tools and machinery where quick and safe power control is essential. Examples include:

- Router Tables
- Table Saws
- Drill Presses
- Band Saws
- Woodworking Machines
- Lathes
- Other high-speed cutting tools

Notausschalter Werden in Einer Vielzahl Von Anwendungen Eingesetzt

Geeignet für die meisten elektrowerkzeuge/maschinen, Ausrüstung

**Router
Sicherheitsschutz**



Tischsäge



Notausgänge



Bohrer



Holz säge



Drehbank

Figure 9.1: The safety switch is suitable for various applications including router tables, table saws, drills, and woodworking machines.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer or manufacturer's official website. Keep your purchase receipt as proof of purchase.