

Safety Distance Control System



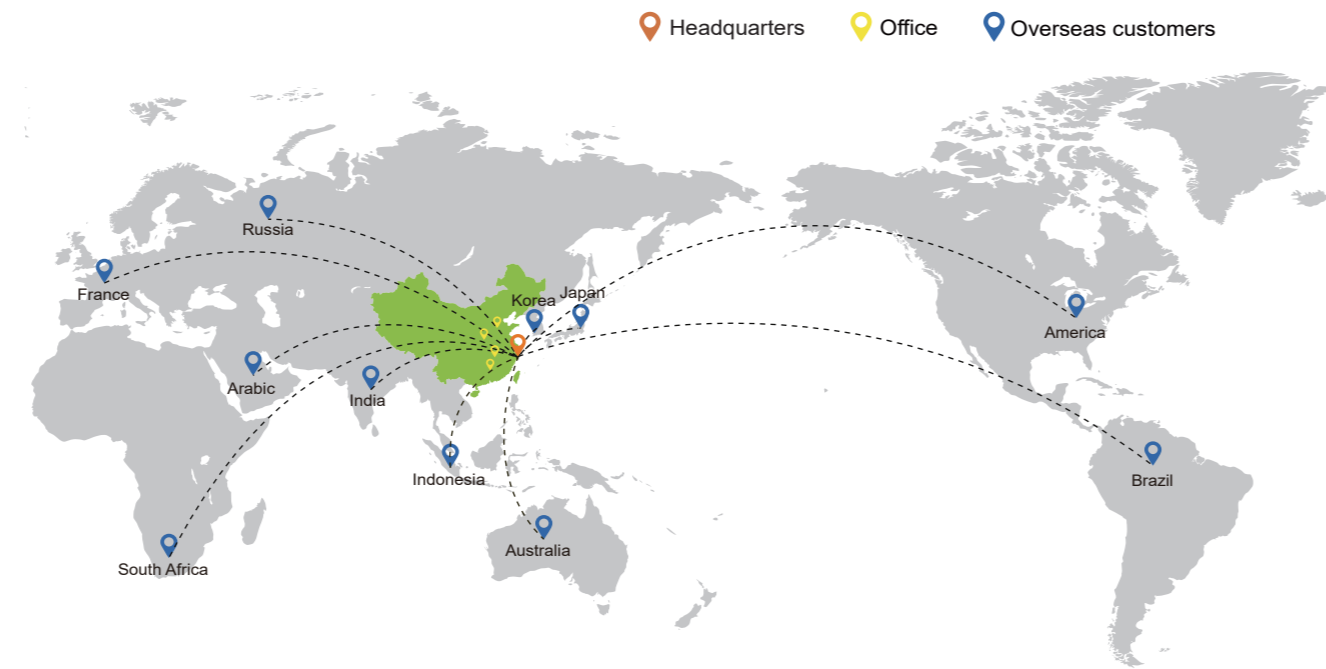
- The operator works in the safe zone (green), remaining within the safe range, and all equipment movements operate at normal speed;
- When the operator enters the stop zone (red), due to being too close to the equipment, an emergency stop signal is triggered, the equipment immediately stops running, and an alarm signal is activated.
- This system prevents the operator from getting too close to the equipment, and also prevents the operator from being too far away, thus ensuring safety during the operation process.

03 OUR CLIENTS



Remarks: The order does not reflect any ranking.

04 BUSINESS DISTRIBUTION



Techwell remote control From China to the world

21 Years Professional service provider in the field of industrial wireless communication and control

- 6+** Our products cover 5 continents worldwide
- 10+** Industry Applications
- 100+** High quality customers

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INDUSTRIAL WIRELESS REMOTE CONTROL



TECHWELL: YOUR TRUSTED PARTNER IN INDUSTRIAL WIRELESS CONTROL



Founded in 2005, TECHWELL specializes in industrial wireless communication and control systems. With over 20 years of R&D and manufacturing experience, we provide intelligent remote control solutions for engineering machinery, mining, maritime, logistics, and military applications worldwide.

WHY CHOOSE TECHWELL?

- ✓ **30+ Patents (Design & Utility Models)**
Driven by profound technical expertise to advance product iterations, providing you with cutting-edge and reliable industrial remote control solutions.
- ✓ **20+ Explosion-proof Certifications**
Meet stringent global safety standards, safeguarding operations in high-risk environments such as oil, chemical, and mining industries.
- ✓ **CE/FCC Certified, ISO 13849 Safety Standard**
Product quality aligns with international standards, ensuring global market compliance and high-performance delivery.
- ✓ **Dual-CPU Closed-loop Control System**
Achieve millisecond-level response and ultra-high control stability through redundant design and real-time feedback, eliminating signal loss.
- ✓ **Customizable Solutions for Various Industries**
Leverage extensive industry experience to tailor optimal control systems for your specific equipment and complex operational conditions.



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01 PRODUCT INTRODUCTION

Shoulder back product series



BS SERIES

• Product Specifications

Size: 265×171×172 mm
 Weight (without battery): 1.2kg
 Material / Protection grade: Engineering plastics / IP66
 Power supply: 7.4VDC/3000mAh
 Remote control distance: ≥150m
 Operating current: 130mA
 Output power: ≤10mW
 Frequency range: 433MHz wave band:427.000~436.300MHz
 470MHz wave band:472.350~485.775MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional display: 2.5/2.8/4.3"
 Optional functions:
 Identity card, Three-axis sensor, Videofeedback
 Operating elements:
 ≤2 dual-axis joysticks or ≤6 single-axis joysticks; ≤6 side switches; 1 emergency stop switch; multiple toggle switches, rotary switches, push buttons, etc.; ≤2 analog inputs, ≤24 digital inputs.

Shoulder back product series



BM SERIES

• Product Specifications

Size: 321×183×180 mm
 Weight (without battery): 1.6kg
 Material / Protection grade: Engineering plastics / IP66
 Power supply: 7.4VDC/3000mAh
 Remote control distance: ≥150m
 Operating current: 100mA
 Output power: ≤10mW
 Frequency range: 433MHz wave band:427.000~436.300MHz
 470MHz wave band:472.350~485.775MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional display: 3.5/4.3"
 Optional functions:
 Identity card, Three-axis sensor, Videofeedback
 Operating elements:
 ≤4 dual-axis joysticks or ≤8 single-axis joysticks; ≤6 side switches; 1 emergency stop switch; multiple toggle switches, rotary switches, push buttons, etc.; ≤2 analog inputs, ≤40 digital inputs.

Handheld product series



BTB

• Product Specifications

Size: 240×68×54 mm
 Weight (without battery): 0.33kg
 Materials: Engineering plastics
 Protection grade : IP66
 Power supply: 7.4VDC/1850mAh
 Remote control distance: ≥150m
 Operating current: 80mA
 Output power: ≤10mW
 Frequency range: 433MHz wave band:427.000~436.300MHz
 470MHz wave band:472.350~485.775MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional functions: Display
 Number of button: 12
 Method of button: Self-resetting

Handheld product series



BXB

• Product Specifications

Size: 240×68×54 mm
 Weight (without battery): 0.35kg
 Materials: Engineering plastics
 Protection grade : IP66
 Power supply: 7.4VDC/1850mAh
 Remote control distance: ≥150m
 Operating current: 80mA
 Output power: ≤10mW
 Frequency range: 433MHz wave band:427.000~436.300MHz
 470MHz wave band:472.350~485.775MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional functions: Display
 Number of button: 21
 Method of button: Self-resetting

Receiver product series



MMN

• Product Specifications

Size: 204×165×124 mm
 Weight: 1.7kg
 Materials: Engineering plastics
 Protection grade : IP65
 Power supply: 12~30VDC
 Operating current: 140mA
 Rated power : <10W
 Contact rating: 8A/250VAC
 Operating temperature: -25°C~+70°C
 Optional functions:
 Feedback detection, Acoustooptical alarms, Data card
 Output method:
 CANOPEN, PWM signals, Analog signals, Switching signals
 Output interface: HAN32
 Safety standards: EN ISO 13849-1:2015 PLd

Receiver product series



MLN

• Product Specifications

Size: 320×210×133 mm
 Weight: 3.2kg
 Materials: Engineering plastics
 Protection grade : IP65
 Power supply: 12~30VDC,42~250VAC,380VAC
 Operating current: 150mA
 Rated power : <10W
 Contact rating: 8A/250VAC
 Operating temperature: -25°C~+70°C
 Optional functions:
 Feedback detection, Acoustooptical alarms, Data card
 Output method:
 CANOPEN, PWM signals, Analog signals, Switching signals
 Output interface: HAN32 or HAN64

Shoulder back product series



BL SERIES

• Product Specifications

Size: 396×234×216 mm
 Weight (without battery): 3.2kg
 Material / Protection grade: Engineering plastics / IP66
 Power supply: 7.4VDC/5000mAh
 Remote control distance: ≥150m
 Operating current: 150mA
 Output power: ≤10mW
 Frequency range: 433MHz wave band:427.000~436.300MHz
 470MHz wave band:472.350~485.775MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional display: 4.3/7"
 Optional functions:
 Identity card, Three-axis sensor, Videofeedback
 Operating elements:
 ≤5 dual-axis joysticks or ≤10 single-axis joysticks; ≤8 side switches; 1 emergency stop switch; multiple toggle switches, rotary switches, push buttons, etc.; 8 LED lights; ≤4 analog inputs, ≤128 digital inputs.

Handheld product series



BEB

• Product Specifications

Size: 212×68×61 mm
 Weight (without battery): 0.36kg
 Materials: Engineering plastics
 Protection grade : IP66
 Power supply: 6VDC/2000mAh
 Remote control distance: ≥150m
 Operating current: 30mA
 Output power: ≤10mW
 Frequency range: 433MHz wave band:427.000~436.300MHz
 470MHz wave band:472.350~485.775MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional functions: Selector Switch, Potentiometer, Display
 Number of button: 8
 Method of button: Self-resetting + Selector switch

Handheld product series



SUPER8 SERIES

• Product Specifications

Size: 227×75×50 mm
 Weight (without battery): 0.36kg
 Materials: Engineering plastics
 Protection grade : IP66
 Power supply: Rechargeable lithium battery 4.2V
 Remote control distance: ≥150m
 Operating current:
 Standby current: 5uA; Average operating current: 10mA
 Output power: 10mW
 Frequency range: 429MHz-459MHz
 Operating temperature: -25°C~+70°C
 Adaptive receiver: MPN,MMN,MLN
 Optional functions: Display screen, Indicator light
 Number of button: 8
 Method of button: Single speed/Double speed

Receiver product series



MPN

• Product Specifications

Size: 134×131×60 mm
 Weight: 0.45kg
 Materials: Engineering plastics
 Protection grade : IP65
 Power supply: 12~30VDC
 Operating current: 100mA
 Rated power : <10W
 Contact rating: 8A/250VAC
 Operating temperature: -25°C~+70°C
 Optional functions:
 Feedback detection, Acoustooptical alarms, Data card
 Output method: CANOPEN
 Output interface: M12

02 ADD NEW FEATURES

Fingerprint Recognition Login System

🔒 Fingerprint unlock

The fingerprint recognition login system prevents unauthorized personnel from operating the equipment.

🚫 Prevent accidental touches

Double protection against accidental touches, preventing dangerous operations.

👤 Fingerprint registration

Supports batch entry/deletion of authorized fingerprints; allows for quick updating of fingerprint permissions during personnel transfers or job changes.



Panel Lighting Function



💡 Panel lighting

Panel lighting provides active supplementary illumination, clearly illuminating buttons, joysticks, displays, and function indicators.

🌿 Nighttime anti-touch protection

This eliminates the need for external light sources, allowing operators to perform precise operations directly without fumbling in the dark.

Video Transmission

- Touchscreen; tap the screen to switch between single and dual screen display;
- Ultra-long-distance transmission, ground-to-ground range of over 500 meters;
- Utilizing international standard high-brightness display screens, the display remains clearly visible even in bright sunlight;
- It features high protection and high resolution;
- It features high protection and high resolution;
- Customizable 4.3" and 7" displays are available.

