

FLEX

ES/EX Series

Industrial Radio Control Systems

- ▶ Ergonomic & Lightweight
- ▶ Durable & Rugged
- ▶ Safe & Reliable
- ▶ Unique I-CHIP Design
- ▶ 62 User Programmable Channels
- ▶ Automatic Channel Scanning Receiver
- ▶ Fully Sealed Enclosures (IP-66)
- ▶ 4-Stage Removable Power Switch



62 User Programmable Channels - Advanced synthesized RF controls with 62 built-in channels set via pushbuttons and dials.

Automatic Channel Scanning Receiver - The receiver is able to search and lock onto the newly selected transmitter channel.

Over One Million Unique ID Codes (20 Bit) - Each Flex ES/EX system has its own unique identification code, never repeats.

Advanced Controls - The Flex ES/EX system utilizes dual advanced microprocessor controls with 32 bit CRC and Hamming Code, providing ultra fast, safe, precise and error-free encoding and decoding.

Unique I-CHIP Design - The I-CHIP functions similarly to a SIM card. Information and settings can be transferred between transmitters without the hassle of resetting the spares.

Full System Compatibility - The software and hardware are fully compatible regardless of model type, minimizing spare parts inventory.

Reliable Pushbuttons - The in-house designed pushbuttons have gold plated contacts and are rated for more than one million press cycles. The defined snap-action steps provide positive tactile feedback even wearing gloves.

Low Power Consumption & Versatility - The transmitter requires only two "AA" alkaline batteries with more than 100 hours of operation. If rechargeable method is preferred, you can also opt for the in-house designed rechargeable battery pack/charger kit, fully interchangeable.

Durable & Rugged Enclosures - All enclosures are made from industrial-strength nylon and fiberglass composite materials. All housings meet the IP-66/NEMA-4 requirements and are highly resistant to dirt, liquid, acid, alkali, grease and oil penetration.

Abundant Programmable Functions - Each system is equipped with more than 200 user-programmable functions to suit all types of applications. Custom functions can also be added upon request.

Pitch & Catch Operation - This standard-equipped function allows two operators controlling from opposite ends of a crane or equipment.

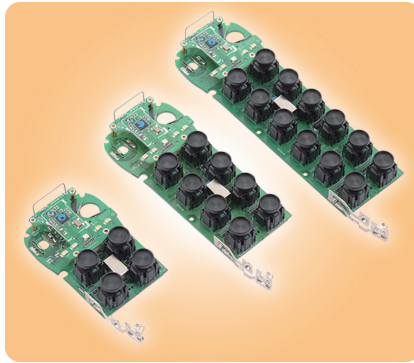
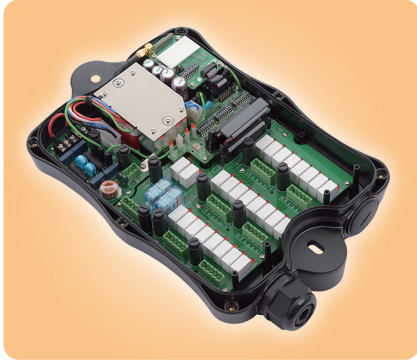
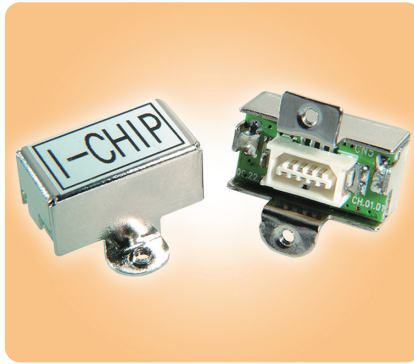
Tandem Operation - This function allows one operator controlling two cranes at the same time via a 3-stage A/B/A+B rotary select switch.

Random Access Operation - This function allows three operators randomly controlling three cranes on a first come - first served basis.

Multiple Receivers Operation - This function allows one operator controlling up to ten receivers or equipment at the same time.

Prewired Output Cable - A prewired output cable is standard equipment on all Flex ES/EX models.

Worldwide Approvals - The Flex ES/EX systems are fully tested and certified in accordance with the FCC Part-15 Rules and EU Safety Standards such as the EN 301 489-1&3, EN 300 220-1&2, EN 60204-32, EN 60950, EN 60529, EN 13849-1 Category PLd, etc...



General Specifications

Frequency Range: 433MHz, 458MHz, 471MHz, 850MHz...

Modulation: Digital Frequency Modulation

Encoding / Decoding Reference: Microprocessor Controlled

Operating Range: >100 Meters / 300 Feet

Frequency Control: Synthesized PLL

Responding Time: 40~60mS

Receiver Sensitivity: -116dBm

Transmitter Voltage: 3.0VDC

Output Contact Rating: 250VAC @ 8A

Receiver Voltages: 24 ~ 48VAC @ 50/60Hz

110 ~ 460VAC @ 50/60Hz

9 ~ 36VDC

Enclosure Rating: IP-66 / NEMA-4

Operating Temperature: -25°C ~ 75°C / -13°F ~ 167°F

Transmitter Dimensions: 138mm x 69mm x 34mm (Flex 4 models)

184mm x 69mm x 34mm (Flex 8 models)

230mm x 69mm x 35mm (Flex 12 models)

Receiver Dimensions: 180mm x 150mm x 82mm (Flex 4 models)

363mm x 228mm x 70mm (Flex 8 & 12 models)

Transmitter Weight: 192g / 6.8oz (Flex 4 models)

242g / 8.5oz (Flex 8 models)

296g / 10.4oz (Flex 12 models)

Receiver Weight: 2.1kg / 4.6lb (Flex 4 models)

2.5kg / 5.5lb (Flex 8 & 12 models)

Standard Models

Flex 4ES: Four (4) one step/speed pushbuttons

Flex 8ES: Eight (8) one step/speed pushbuttons

Flex 12ES: Twelve (12) one step/speed pushbuttons

Flex 4EX: Four (4) two steps/speeds pushbuttons

Flex 8EX: Eight (8) two steps/speeds pushbuttons

Flex 12EX: Twelve (12) two steps/speeds pushbuttons

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