

License Free Radio Control Systems

120V AC Single & Two Speed
Hubbell Radio Remote Control Systems

Spec Sheet 31.130 • October 2000
Replaces: Catalog Sheet 31132 License-Free Radio

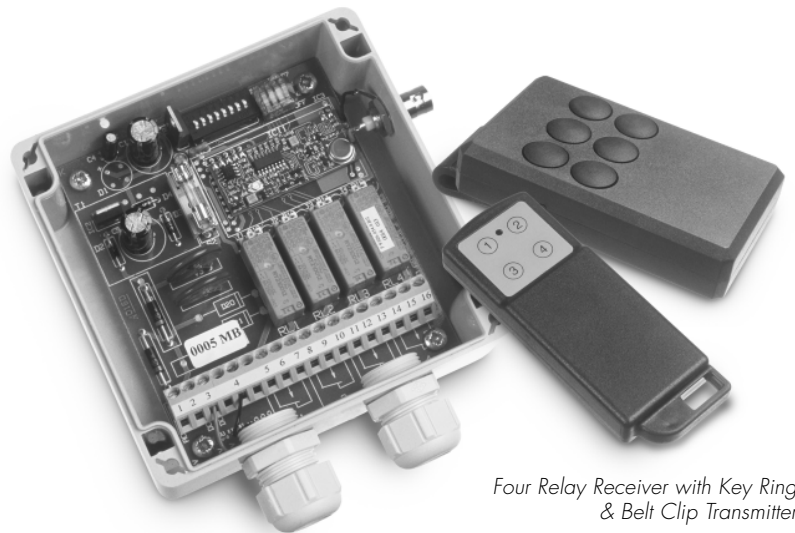
- System approved for operation under FCC Part 15 rules — no user license required.
- Digital FM signal — exceptional immunity to noise.
- Security — 65,000+ address codes available, user settable by dip switch
- State of the art design — surface mount, micro-controller electronics.
- Auto power off extends battery life.
- Extremely compact and cost effective systems.

Select one of several single-speed transmitters or a two-speed transmitter:

- Key-Ring - with 1 or 4 buttons
- Belt-Clip - with 1, 2, 3, 4, or 6 buttons
- Hand-Held - with 6 or 8 buttons
- Hand-Held - with 8 two-speed buttons.

All transmitters are rated NEMA 3 for indoor/outdoor use.

Select receivers with the number of output relays to match the transmitter functions. A flexible half-wave antenna mounts directly to the receiver by BNC connector. All receivers are rated NEMA 4X for indoor/outdoor use.



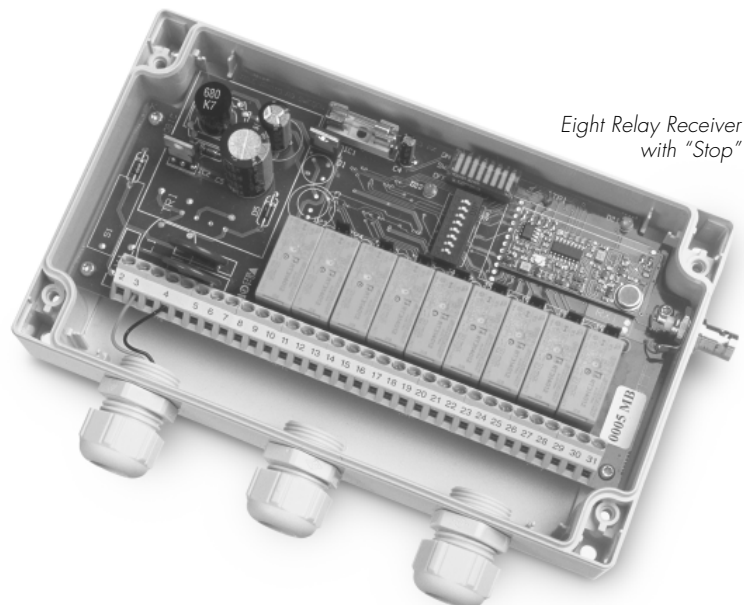
Four Relay Receiver with Key Ring & Belt Clip Transmitter

Single Speed Control System Features

- Extremely compact and cost effective Remote Control Systems
- Output relays are individually settable for momentary or latched function
- Highly reliable and secure operation
- Meets FCC Part 15 rules: no user license required

Two Speed Control System Features

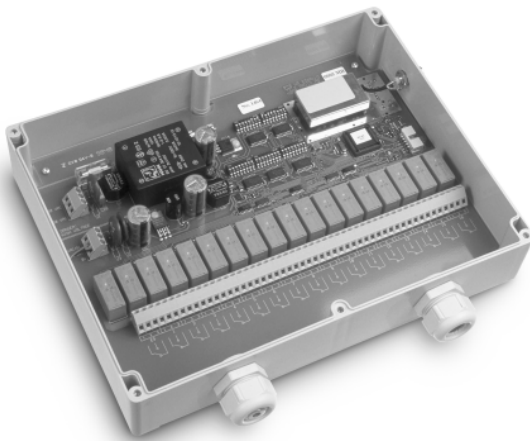
- Extremely compact and cost effective Remote Control Systems
- Output relays are individually settable for momentary or latched function
- Highly reliable and secure operation
- 32 frequencies in the 430 MHz FM band
- Active E-Stop
- Meets FCC Part 15 rules: no user license required



Eight Relay Receiver with "Stop"



Hand Held Two Speed Transmitter with "E-Stop" (with optional rubber boot)



16 Relay Receiver with "E-Stop"



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Single Speed Specifications

Transmitter Specifications

- Built-in antenna
- Frequency: 433 MHz, FM
- Digital pulse transmission
- LED to indicate "transmitting/battery low"
- For indoor and outdoor use: NEMA 3 and IP 54

Key-Ring Transmitter

- 1 or 4 pushbuttons
- 12 Volt alkaline battery
- Operating time: 15 hours continuous
- Approx. weight: 1 oz. with battery
- Approx. size: 3" x 1" x 1/2"

Belt-Clip Transmitter

- 1, 2, 3, 4, or 6 pushbuttons
- 9 Volt alkaline battery
- Operating time: 24 hours continuous
- Approx. weight: 4 oz. with battery
- Approx. size: 4" x 2 1/2" x 1"

Hand-Held Transmitter

- 6 or 8 pushbuttons
- 9 Volt alkaline battery
- Operating time: 15 hours continuous
- Approx. weight: 9 oz. with battery
- Approx. size: 6" x 3" x 1 1/2"

Hand-Held Transmitter with "Stop"

- 4, 6 or 8 pushbuttons, push/pull switch for "Stop/Run", keyswitch for transmitter "On/Off"
- Rechargeable lithium battery
- Operating time: 30 hours continuous
- Recharge time: 3 hours
- Approx. weight: 10 oz. with battery
- Approx. size: 6" x 3" x 1 1/2"

Receiver Specifications

- Double superheterodyne
- Sensitivity -110 dBm or better at 20 dB S/N
- Frequency: 433 MHz, FM
- 1/2 wave flexible antenna
- Output relays rated 8 Amp at 250V ac
- For indoor and outdoor use: NEMA 4X and IP 65
- For operation from 120V ac power, or optionally: 12/24V dc; 12/24V ac

4 Relay Receiver

- 4 output relays
- Approx. size: 5" x 5" x 2"

4 Relay Receiver with "Stop"

- 4 output relays
- 1 "stop" relay
- Approx. size: 5" x 5" x 2"

6 Relay Receiver

- 6 output relays
- Approx. size: 8" x 5" x 2 1/2"

6 Relay Receiver with "Stop"

- 6 output relays
- 1 "stop" relay
- Approx. size: 8" x 5" x 2 1/2"

8 Relay Receiver

- 8 output relays
- Approx. size: 8" x 5" x 2 1/2"

8 Relay Receiver with "Stop"

- 8 output relays
- 1 "stop" relay
- Approx. size: 8" x 5" x 2 1/2"

Two Speed Specifications

Transmitter Specifications

- Built-in antenna
- Digital pulse transmission
- LED to indicate "transmitting/battery low"
- 2 LED's to indicate selected function
- For indoor and outdoor use: NEMA 3 and IP 54

Hand-Held Transmitter with "E-Stop"

- Eight 2-speed pushbuttons, push/pull switch for "E-stop/Run", keyswitch for transmitter "On/Off"
- Automatic "power off", user settable for 2, 6, 12 minutes, or manual
- Rechargeable lithium battery
- Operating time: 12 hours continuous
- Recharge time: 1 1/2 hours
- Approx. weight: 10 oz. with battery
- Approx. size: 6" x 3" x 1 1/2"

Receiver Specifications

- Double superheterodyne, synthesized
- Sensitivity -110 dBm or better at 20 dB S/N
- 1/2 wave flexible antenna
- Output relays rated 16 Amp at 250V ac
- For indoor and outdoor use: NEMA 4X and IP 65
- For operation from 120V ac power, or optionally: 12/24V dc; 12/24V ac

9 Relay Receiver with "E-Stop"

- 9 output relays
- 2 "E-Stop" relays
- Approx. size: 9" x 6" x 3 1/2"

16 Relay Receiver with "E-Stop"

- 16 output relays
- 2 "E-Stop" relays
- Approx. size: 12" x 9" x 2 1/2"