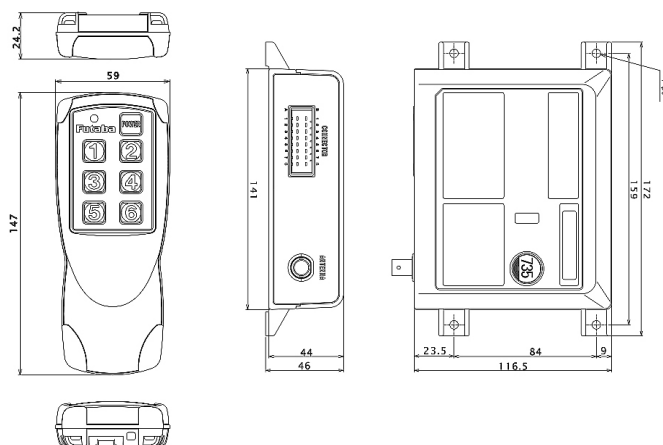


Futaba FRN Compact Radio Kit

Model # FRN-0602U

The Futaba FRN-0602U 6-channel radio remote control system offers exceptional value in a small industrial remote control. With microprocessor control in both transmitter and receiver, the unit provides remote control of up to 6 relays. Application possibilities include conveyors, hoppers, stop light systems, construction machinery, boom trucks and much more. Exclusive direct sequence data encoding techniques provide a system with excellent reliability and immunity to false activations from noise and interference.

Additionally, 16-bit system identification codes offer excellent security. Housed in an injection molded high impact plastic case with water resistant gaskets, the transmitter's sealed membrane switches assure long life in an industrial environment. The receiver, also in an injection molded high impact case, operates on 12 or 24 VDC power. Momentary dry pair outputs are standard, with optional latching outputs and switched source voltage contacts available.



Applications

- Conveyors, Hoppers, Stop Light Systems
- Construction Machinery
- Winch Control

| GENERAL SPECIFICATIONS | |
|------------------------|--|
| Frequency Range | 31.95 to 319.05 Mhz |
| Frequency Control | PLL synthesizer, 20 frequency channels |
| Modulation | FM-FSK |
| Security | 16 bit ID code (65,536 unique codes) |
| Baseband Data Format | Direct sequence encoded |
| Communication Mode | Simplex |
| Error Checking | CRC technique |
| Data Channels | 6 discrete |
| Response Time | < 200 ms average |
| Humidity | Up to 90% RH, non-condensing |
| Operating Temps. | -4 to +140° F (-20 to +60°C) |

| TRANSMITTER SPECIFICATIONS | |
|----------------------------|--|
| Battery Voltage | 3AAA Alkaline Batteries |
| Max. Current Consumption | 26 mA (RF active), 10 mA (idle mode) |
| Power saving features | RF emissions off delay: 4 SEC. Auto power off delay: 3 SEC. |
| Antenna | Internal |
| Dimensions | 5.88 x 2.36 x 0.96 in (147 x 59 x 24 mm) |
| Weight | 4.2 oz. (excluding batteries) |
| Operating Range | 350 ft. Line of sight |
| Battery Life | 30 hrs (alkaline batteries continuous operation) |

| RECEIVER SPECIFICATIONS | |
|------------------------------|--|
| Supply voltage | 12/24 VDC (9 to 31 VDC limits) |
| Discrete channel outputs | 6 electromechanical relays, SPST normally open two-wire dry contacts |
| Relay ratings resistive load | 5A, 31 VDC/120 VAC maximum |
| Inductive load | 2A, 31 VDC/120 VAC maximum |
| Max. current consumption | 1.2A (6 Relays Activated) 150 mA (Idle Mode) |
| Antenna | External whip, 10.24 in (260 mm), metric UHF metric male |
| Antenna cable | RG-58/U coaxial, 13.1 ft (4 m), BNC male to UHF metric female |
| Dimensions | 6.77 x 4.68 x 1.81 in (172 x 117 x 46 mm) excluding antenna |
| Weight | 13.1 oz (excluding antenna) |

