

## Radio Remote Control Systems

### Receiver Units IRX-Lite & MC-Mini



*Cavotec is a global engineering group that manufactures power transmission, distribution and control technologies that form the link between fixed and mobile equipment in the Ports & Maritime and Airports & Industry sectors.*

*One of Cavotec's eight Centres of Excellence, Cavotec Micro-control engineers advanced radio remote control systems in close co-operation with customers worldwide.*

*IRX-Lite & MC-Mini Receiver Units are key elements of our advanced systems offering.*

#### Benefits

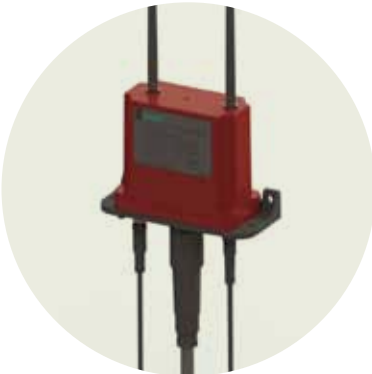
- Wireless operator panels improve system safety by enabling operators to be positioned in designated safe areas.
- Wireless technology also enables operators to move freely and to act quickly in emergency situations.
- Operators are also able to position themselves to ensure an optimal view of operations.
- Emergency safety-stop function enables termination of any operation within 50mS.
- Redundant monitoring of the stop system.
- Units fitted with primary and additional safety processors - a unique feature that uses entirely separate platforms with different design and software, thereby minimising system redundancy.
- This technology has been widely adopted and proven to be one of the most advanced safety features used, for example, in control systems for aircraft.



Standard MC- BUE1 Receiver Unit



Opened MC-BUE2 Receiver Unit



MC-MINI-CAN Receiver Unit

## Technical characteristics

### General data

- The MC-IRX is one of the most advanced receiver units which can be used to control most common types of system applications.
- The flexibility of a Cavotec Micro-control systems allow almost limitless combinations of relay and proportional I/O.
- The built in PLC functionality means complicated control interlocking and sequencing are possible.
- Custom systems built around MC-IRX and are configured precisely for the application, can be delivered with a standard MC-BUE1 enclosure, a bigger MC-BUE2 enclosure or to be integrated into customers' electric panels. Both plugs and terminals are optional to ensure easy integration with customers' equipment.
- Supply voltage receiver: 12 / 24 VDC; 110-240 / 380 VAC 50/60 Hz.
- 16 relay outputs, 12 NO-relays, 4 are alternating, 5 Amp.
- Up to four analogue and/or 24 digital input for feedback.
- MUS-bus connection allows extensions up to 32 additional relays and 12 proportional outputs.



MC-MINI-ProfiBus or Din-Rail Receiver Unit

### Fieldbus receivers

Cavotec fieldbus units are designed to be used with a variety of bus formats as indicated in the list below:

- ProfiBus
- ModBus RTU
- CANopen
- DeviceNet
- Modbus Plus
- Modbus TCP
- Ethernet IP
- HostLink

Supply voltage receiver: 12 / 24 VDC; 110-240 / 380 VAC 50/60 Hz

MC-MINI receiver units upon request.



Pedestals for operating and storage for terminals

## Approvals & Standards

Cavotec radio remote control systems comply with a variety of international rules and regulations. All systems are CE marked and can be used with our FCC Part 90 approved radio. The systems are designed in accordance with the European Machinery Directive and comply with IEC 60204 and ISO 13849. In addition we have a wide range of compliant radios that can be used in type approvals of systems for specific countries worldwide.