

Radio Remote Control Systems

MC-Receiver Unit MC-MB2



MB2 base unit for dinrail mounting



MB2 in Bue 1 enclosure



Polled duplex radio communication

Cavotec wants to contribute to a future world that is cleaner, safer and more efficient by providing innovative connection solutions for ships, aircraft and mobile equipment today.

For more than 30 years, Cavotec has engineered advanced radio remote control systems in close co-operation with customers worldwide.

Benefits

- Modular & flexible design.
- Compact size for easier system integration.
- Safety, and stop function rated CAT3 PLd.
- Display for diagnostics, parameter settings and trouble shooting.
- World wide approved radio modules including 2.4GHz version.
- Radio signal strength indication in receiver and terminal unit.
- Tandem operation with multiple terminals and multiple receiver units included polled radio systems.
- PLC programming possibilities including extensions with Micro USB.
- Self configuration of modules.
- Back-up solution with cable connection for programming and control.
- Smart cable pairing for extended flexibility and easier spare part handling.

Applications

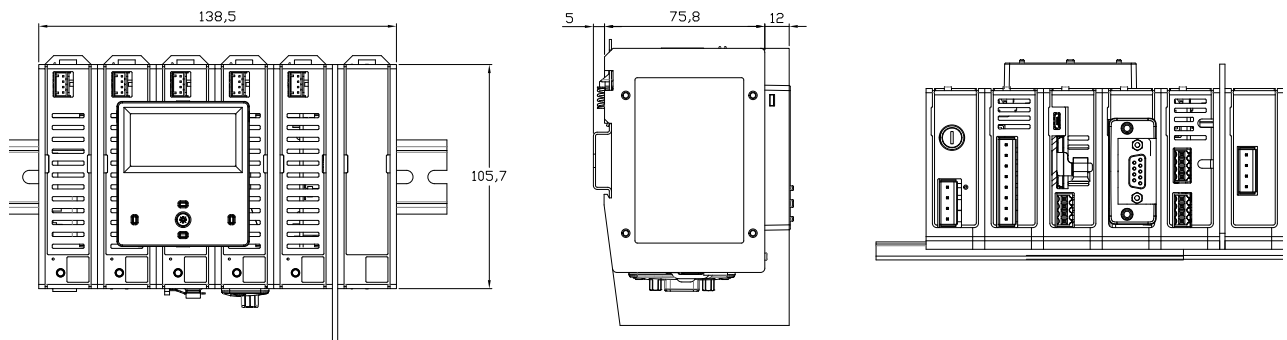
- The MB2 receiver unit can be used in any RRC system, where quality, reliability and safety are essential in system design
- Typical use is in offshore installations, mining equipment as well as general industry and deck handling equipment
- Both EX and safe zone versions available and possible to combine with any Cavotec remote terminal units

Technical characteristics

MB2 Receiver Unit

- Dual safety processor.
- Complete operational control with unique signal encoding prevents unintended movements.
- Activity check on start up to guarantee safe operations.
- Stop relay activation in less than 500ms.
- Redundant radio solution.
- License free frequency with low power outputs.
- PLC functionality for interlocking, sequencing and timing functions programmed directly without additional hardware.
- Available interfaces include: Profibus DP, ModBus TCP, Ethernet IP, CANopen, DeviceNet or Profinet I/O.

Dimensions



General data

| | | | | |
|--------------------|---|-----------------|--------------------|-----------------|
| Display | Graphical display for configuration and error codes | | | |
| Power supply | 24 V, 2.5A1, 100-240V 50-60Hz, 2.5A | | | |
| Dimensions | 138,5 X 105,5 X 92,8mm | | | |
| Weight | <0,9kg without enclosure | | | |
| IP | IP65/IP66 Standard enclosure, IP65/IP66 Steel enclosure, IP20 Open frame solution | | | |
| Operating distance | Up to 2,000m | | | |
| Temperature | | Open frame | MC Bue 1 enclosure | Steel enclosure |
| | With radio | -20°C and +60°C | -20°C and +45°C | -20°C and +45°C |
| | Without radio | -20°C and +70°C | -20°C and +45°C | -20°C and +45°C |
| Frequency | According to local authority guidelines | | | |

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 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.

Please contact your local Cavotec Sales Office for further information at cavotec.com.

Disclaimer: specifications are subject to change without notice.