R–4 1-16 Channel Factory Configurable Receiver

With Connector, Cable and Internal or External Antenna

FEATURES

- **Simple to Set Up and Use**
  Pre-wired cable harness with Deutsch DTM series connector. Factory programmed for your application. Wiring diagram included.

- **Compact, Rugged Enclosure**
  Compact size is ideal for mounting in tight spaces. Environmentally sealed for harsh off-highway applications. IP66 rated enclosure and connector.

- **Affordable**
  Fully integrated receiver. No external modules required. Outputs factory configured for your application. Pay only for the outputs and features you need.

- **License Free**
  Pre-certified FCC - no license required.

- **External Antenna (Option)**
  Flexible antenna can be installed away from obstructions to improve range.

OPERATION

Radio Operation

Up to 16 factory installed outputs can be any combination of digital (bang/bang), proportional current, ratiometric, or unamplified. Can directly drive a wide range of coils and other DC loads.

Up to 7 of the available output channels may be configured as inputs with popular voltage ranges suitable for reading sensors or switches.

Programmable Logic

Receiver can be factory programmed to perform a wide range of logical functions and sequences.

Pushbutton/Tether Learn

Transmitter and receiver are “married” to permit operation of multiple radios in the same area without cross-control. Transmitters and receivers can be married in the field by pushing a button in the receiver or momentarily connecting the optional tether cable.

Safety Features

Receiver automatically detects when transmitter is out of range, and returns outputs to a safe condition. Normally-closed E-Stop output also available. Monitored receiver electronics disables outputs on fault condition.

APPLICATIONS

- Crane control
- Wood chippers and grinders
- Blower trucks
- Sawmill machines
- Conveyors
- Earth compactors
- Rock crushers
- Robotics
- Remote process control
- Winch systems
- Specialty off-highway equipment

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>RX4</td>
<td>Standard range 16 channel receiver</td>
</tr>
<tr>
<td>RE4</td>
<td>Extended range 16 channel receiver</td>
</tr>
<tr>
<td>RZ4</td>
<td>International 16 channel receiver</td>
</tr>
<tr>
<td>RU4</td>
<td>Microlink compatible 16 channel receiver</td>
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# SPECIFICATIONS

## General
- **Power Requirement**: 10 to 30vdc, 500mA nominal + power to loads
- **Fuses**: 10-amp inline mini blade fuse. Outputs protected

## Radio
- **Frequency**
  - 902-928MHz, Unlicensed ISM band standard models
  - 2.4-2.4835GHz, Unlicensed ISM band international option
  - RU4 (Microlink) option, 433.92MHz, Fixed frequency FM
- **Type**: Frequency hopping spread spectrum
- **Frequency Control**: Direct FM
- **FCC id**
  - OUR9XCITE: Standard range
  - OUR9XTREAM: Extended range
  - OURXBEE: International version
- **Sensitivity**: -104dBm

## Receiver
- **RF Connector (option)**: BNC
- **Output Types**: Digital, proportional, ratiometric, or unamplified
- **Digital Outputs**: Solid state relay, provides supply voltage up to 5-amp
- **Proportional Current Outputs**: Adjustable PWM up to 5-amp
- **Ratiometric Outputs**: 25% to 75% of supply voltage, 100mA max
- **Unamplified Outputs**: Customer specified (0 to 10v, typical)
- **Inputs**: Up to 7 factory configurable inputs, 55vdc max.
- **Field Wiring**: 1 or 2, 12-pin DTM connector with 6' pigtail cable

## Enclosure
- **Enclosure**: Nylon 6/6 black, IP66
- **Approximate size**: 5.24” L x 4.63” W x 1.48” D

## Environmental
- **Storage**: -40ºC to 85ºC

Up to 16 factory configurable outputs in a rugged, compact, and water tight enclosure.