

LRRB30 Long Range Radio Button

Any existing access control system can be equipped with radio-based proximity sensing, by the simple addition of Radio Reader. Keyless entry, handicapped access, and emergency alert functions are easy to achieve with this wireless control technology.

Easy way to equip ANY Wiegand input access control panel with radio transmitter access.

- Connects as easily as card readers; transmitters are added like cards, with no software changes required.
- Keyless entry offers user convenience, safety, and security for triggering gates, barrier arms, and doors.
- Ideal way to facilitate handicapped access.
- Multi-button transmitters can double as personal emergency devices for triggering security alarms.
- RF input/Wiegand output receiver supports 26 Wiegand -bit data formats.
- Field read range— to 30 m

With a read range of up to 30 m, transmitters facilitate handicapped access far more than close proximity or contact devices. For adding security at sites such as college campuses and parking garages, multichannel models allow access control and "panic button" functions to be combined in a single device.

The Reader uses a Wiegand output format (26, -bit supported) that interfaces to virtually any commercial access control panel. Long-range transmitters can be added as easily as Wiegand cards, and without software changes. Facility and ID codes can be matched to system requirements. The 30m range of the reader is made possible by superheterodyne receiver technology.

Specification:

- Dimension: 60/42/28
- Power Supply: 12V DC
- Consumption: $\leq 12\text{mA}$
- Radio Frequency: 433MHZ
- Transmitting Distance: up to 30m
- Communication: Wiegand 26 bit output
- Transmitting Power: 10mW

Wiegand Output Radio Reader -electrical connection

1. Power the Wiegand Output Radio Reader:

- Connect the black wire to Ground
- Connect the red wire to 12V DC

2. Wiegand coupling

- Connect the white wire of the Wiegand Output of Radio Reader to the D1 input of the controller
- Connect the green wire of the Wiegand Output of Radio Reader to the D0 input of the controller

Mode of operation

The operating modes are determined by using switching jumpers. Switching jumpers are located on the PCB under the cover.

1. When the jumper is placed in position '1' - first button on the transmitter emits the first code, second button on the transmitter emits the second code.

2. When the jumper is placed in position '2' - the first and second button activates the transmission of a single number from the transmitter.

3. When the jumper **is placed in position '3'**-first and second button activates the transmission of a single number from the transmitter, but when we press the first button on the transmitter after the number is added 4-digit code 0001. pressing the second button after the number of the transmitter is added 4-digit code 0002.

LED STATUS

Reader condition	LED STATUS
Initial start	<i>LED blinks and then switches off</i>
Wiegand_Output_Radio_Reader transmitted code to the control system	<i>LED blinks ones and then switches off</i>
Wiegand_Output_Radio_Reader expects to receive code	<i>LED is off</i>

Wiring diagrams

