

LONG RANGER

WIRELESS REMOTE TRANSMITTER & RECEIVER

Applications

The LR-650 is a remote control device that consists of a transmitter (key fob) and receiver that provide long-range wireless control. With an operating range up to 450 feet, these devices are used to control a variety of home automation products, including garage door openers, lights, gates, doors and much more.

LR-650



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FEATURES

- Receiver operating voltage 11-24VDC/AC with current draw as low as 8mA making it suitable for solar applications
- Form "C" relay output (NO/COM/NC)
- 4 output modes (1 sec, 4 sec momentary, toggle and latch)

Extended Range Antenna

- 1100 foot max.
- Easily plugs into connector on receiver motherboard
- 9 feet of coax included
- 5 VDC @ 4.0mA current draw
- 315 MHz frequency
- Sensitivity 0.89mV @ -108dBm
- Bandwidth 3.0 MHz (-3dB)
- Works on LR-650-RX



LR-650-TX



LR-650-TX-P



LR-650-RX

Technical Data

Operating Frequency	315 MHz
Operating Voltage	11 – 24 VDC/AC
Operating Distance	450 feet open air, 1100 feet with optional dipole antenna (LR-Dipole)
Operating Temperature	-4° F to + 162°F (-20°C to + 72°C)
Current Draw	15 mA @ 12 VDC (standby) / 45 mA @ 12 VDC (activated)
Sensitivity	-87 dBm (typical)
Data Format	PWM
RF Codes	68 billion
RF Channels	1
Number of Stored Transmitter Codes	15 FIFO
Receiver Outputs	Form "C" relay output (NO/COM/NC)
Output Modes (Programmable)	4 sec momentary (default), 1 sec momentary, toggle or latch
Connectors	Quick connect screw terminals
Case Material	High-impact ABS plastic
Approvals	FCC

Ordering Information

- LR-650-TX One button transmitter
- LR-650-TX-P One button programmable transmitter
- LR-650-RX One channel receiver
- LR-DIPOLE Extended range antenna

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. Rev 1.2 11/20/19