AWID

The RFID with Best ROI™

LR-911™
Sentinel-Prox™
Proximity Reader

AWID's LR-911™ Long-Range Reader is a UHF tag reader used in RFID applications for vehicles and controlling access at gates. The electronics and antenna are integrated in a single small enclosure. The LR-911 is optimally designed for Automatic Vehicle Identification (AVI) and Access Control applications such as parking facility and residential gate control. It also provides identification and access for wheelchairs at elevators, and gurneys in hospital entrances. The LR-911 Reader assures secure communications between the reader and its UHF vehicle tags.

Important: The LR-911 reader can be purchased only for applications that require compatibility with existing installations in which other LR-911 readers are already in use, or where the reader must be able to read existing WS-1216-0-0 or MT-1014-0-0 tags. For all other applications, use the **LR-2000** *reader with its 5 vehicle tags and 2 hand-held cards.*

The LR-911 reader is suitable for outdoor applications. (A protective polycarbonate housing must be provided for direct exposure to rain or snow, or to bright sunlight in a hot environment.) The LR-911 offers price:performance advantage over conventional long-range proximity card and active-tag UHF systems.

The LR-911 operates in the license-free 902-928 MHz UHF band. It combines effective UHF technology with economical, long-life passive tags, programmable read repetition rate and RF power level, and simultaneous Wiegand and RS-232 data outputs. It can be interfaced with all standard access and AVI systems. The reader is manufactured in an ISO-9001 certified facility assuring the highest quality standard. The LR-911 offers an impressive combination of single unit construction, small size, and attractive appearance. Tag reading distance is commonly up to 12 feet, depending on reader mounting, credential type, and environment.

The LR-911 reader is available in an optional LR-911HiLoMA package, consisting of a master reader, a remote antenna, and a coaxial connecting cable. The "HiLo" reader set should be used at sites where the effective RF field must be expanded horizontally or vertically, or directed to two neighboring zones, for special conditions of vehicle flow or topography. (Consult AWID to discuss each case.)

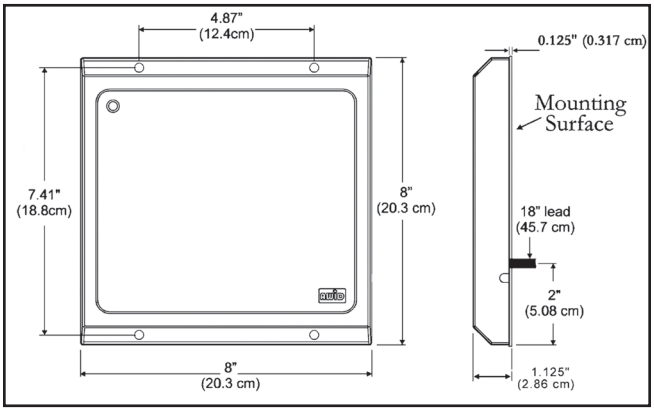
Vehicle tags for use with the LR-911 reader are the WS-1216-0-0 windshield-type tag and the MT-1014-0-0 metal-mount tag. Both tags may be attached inside the vehicle. The MT tag may also be left unattached for quick access and hand-held reading, and may be permanently fastened outside the vehicle.

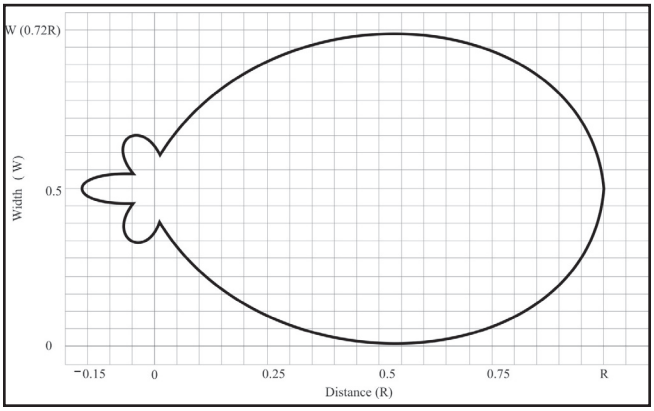
FEATURES

- Long reading distance . . .
  Up to 12 feet from reader to tag
- Small, attractive reader . . .
  Single unit with antenna, 8" x 8" x 1-1/8"
- Easy reader installation . . .
  No programming; simple wiring
- Choice of vehicle credentials . . .
  Windshield and surface-mounted tags
- Unlimited tag life . . .
  Passive battery-free credentials
- Data output to fit the system . . .
  Selectable read repeat rate
- No interference between readers . . .
  Programmable field strength limits zone
- Dual antenna sets for difficult sites . . .
  Optional LR-911HiLoMA reader set
- RF transmission only as needed . . .
  Use vehicle sensor to arm the RF circuit
- LR-911 mixes with other readers . . .
  Uses same code type as prox readers
- Easy interfacing to control systems . . .
  Both Wiegand and RS-232 data output
- Complies with certifications . . .
  ISO-9001:2000; FCC Part 15; IC
- Ideal upgrade for old systems . . .
  Adds vehicle access to card entry
- Eliminates stop-and-wait entry . . .
  Cars continue moving past reader
- For outdoor applications . . .
  *Housing available for rain and sun**
- Easy to buy and own . . .
  Installer needs no FCC registration
- Worry-free installation . . .
  Instructions, installation kit, and ready technical support

LR-911™

UHF Long Range Reader





ACCESSORIES & SUPPLIES

- LR-911KIT Installation Kit – A **requirement** for all installers. An effective way to demonstrate the LR-911, to prove its operation, to measure its performance,
to locate tags, and to aim the reader. A one-time purchase.
- Mounting bracket – Pan-and-tilt adjustable, for aiming the LR-911 at the tags' reading location. AWID offers LR-MB-0-0.
- Power supply – Each LR-911 requires a separate, independent, dedicated power supply. Ask AWID for specifications. AWID offers PS12-3.3A-0-0.
- Cable for power and data – Correct cable assures good reader performance. Ask AWID for specifications. For Wiegand interface, up to 500 feet long.
- Protective housing – To avoid rain, snow, hot sunlight, visibility or vandalism. AWID suggests Model PCH196 Lexan housing from The Housing Company.
- Mounting devices – Consult with supplier for poles, posts, pedestals, bollards, barriers, etc.
- System components – Consult with supplier for access control package, gates, vehicle sensors.
- Installation & Operation Manual – Download Manual from AWID's Web site.
- HH-6600 UHF Handheld Reader – Check codes in tags up to 6 feet.

CREDENTIAL OPTIONS

- Vehicle-mounted tags – Tags for permanent or movable applications, inside or outside vehicles.

Ask AWID about tag selection and mounting methods.

OPERATING CHARACTERISTICS

Readng Distance:
Up to 12 feet (3.6 meters)

Frequency Band:
902 to 928 MHz (in USA)
Frequency-hopping technology

Antenna Output:
Circular-polarized RF field\

Power Supply:
7 to 15 volts DC – linear, regulated
At 12 VDC, rated for 1.5 A or more
Separate, independent, dedicated

Communications Protocols:
Wiegand and RS-232, simultaneous

Code Formats:
Determined by AWID's tags programmed with 26 bits to 50 bits

Cables (For Wiegand Interface):
Power – 2 conductors, 18 gauge
Data – 3 conductors, 22 gauge
Stranded, color-coded, shielded
Up to 500 feet lon

Field-Programmable Features:
Read repeat rate; RF power level

PHYSICAL CHARACTERISTIC

Dimensions:
8 x 8 x 1.125 inches (20.3 x 20.3 x 2.86 cm)

Weight: 37.5 ounces (1.06 kg

Material (Color):
ABS enclosure (beige); aluminum backplate

Cable (Integrated with Reader):
10 conductors, 32 inches long
Overall shielded, plastic sheathed

Mounting (Supplied by Installer):
Pan-and-tilt adjustment for aiming

ENVIRONMENT

Operating Temperature:
At 50% duty cycle –
-31 to +150 F (-35 to +65 C)
At 100% duty cycle –
-31 to +115 C (-35 to +45 C)

Operating Humidity:
0% to 95%, non-condensing**Protection from Environment:**
Use Lexan housing when reader is exposed to rain or snow, or to bright sunlight in hot area.

Avoiding Interference:

Optimize reader performance by avoiding sources of RF – fluorescent and other arc lighting, UHF transmitters, other readers

CERTIFICATION

ISO-9001:2000; FCC Part 15

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