

Installation Sheet (Wiegand Interface)

LR-3200 UHF Reader



These instructions are for AWID's Model LR-3200 Long Range Reader, using compatible UHF credentials from AWID. This guide describes installation using the Wiegand interface. For RS-232 interface, download AWID's Technical Reference.

Preparation

Reader Location: Select the reader's mounting location. The LR-3200 Reader may be screwed to a pole, pedestal, or flat surface with appropriate mounting hardware (LR-MB-0-0). Mounted on a metal surface; the read range may be reduced.

DC Power Supply: A separate dedicated DC Power Supply for each LR-3200 Reader. Do not draw the reader's power from the system's controller. Nominal 12 volts DC supply to the reader. Current capacity needed; 3 amperes or more.

Cable: May be separate for data and for power, or may be combined for data and power together. Max. length = 500 ft.

Power Alone – 18 gauge, 2 conductors, stranded wires, color-coded, overall shielded, high quality.

Data Alone – 22 gauge, 3 conductors, stranded wires, not twisted pairs, overall shielded, high quality.

Combined Cable – 18 gauge, 5 conductors, stranded wires, not twisted pairs, overall shielded, high quality.

If cables are pulled through metal conduit, the conduit should be earth-grounded.

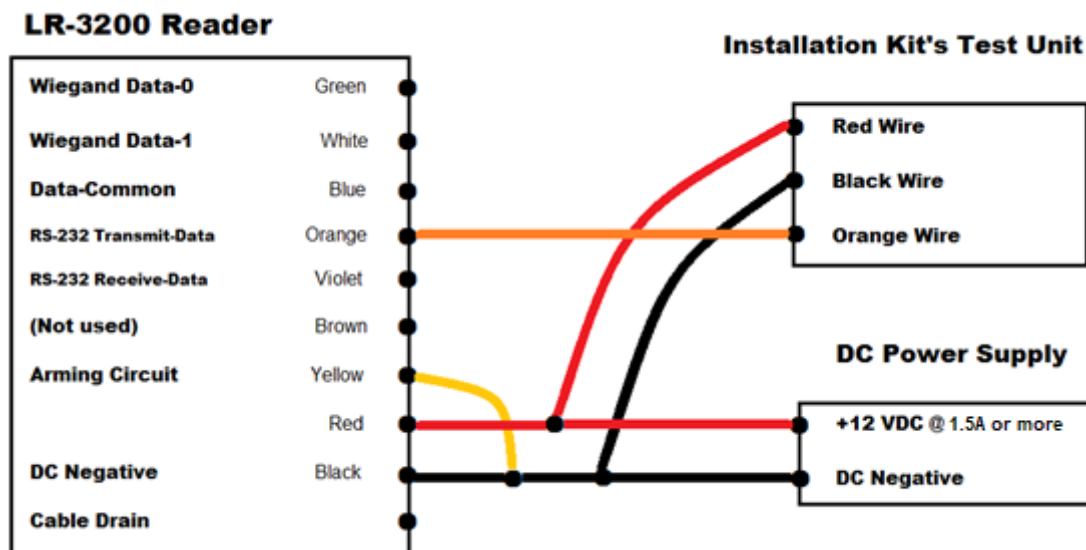


Figure 1

Procedure

Mounting the Reader

1. Fasten the mounting bracket to the pole, post, pedestal or wall. Leave space for the reader unit's pan-and-tilt adjustment.
2. Fasten the reader to the bracket with 2 ¼"-20 screws. AWID's LR-MB-0-0 bracket includes fasteners.
3. Aim the reader toward the location of tags when they are attached to vehicles, for the planned reading distance.

Wiring the LR-3200 (Figure 1)

1. Cut off the 10-pin connector from the end of the reader's cable and discard the connector.
2. Check the power supply and cable(s) for power and data. Be certain that they meet AWID's Specifications.
3. Connect **Yellow** to **Black** at the reader; **Black** and **Red** to the power supply; **Green** and **White** and **Blue** to the controller.
4. Connect the readers **Drain/Shield** wire to the shields of all cables. **Do not ground** drain and shields – they must float.

Yellow Wire - Arming circuit – If you are not using a arming circuit, **connect the yellow wire to the black wire at the reader permanently**. For control of the reader's RF transmission by a vehicle sensor, connect the yellow wire to the relay contacts of the vehicle sensor (IR Sensor, Ground Loop). To disarm the reader (no RF transmission), do not connect yellow wire.

Blue Wire - The blue wire is Wiegand Data Common. It connects where a proximity reader's black wire would connect on that reader port. The terminal is usually labeled "Ground". If there is a "Data Common" terminal on that reader port, connect the blue wire there instead of "Ground".

Testing the Completed System

Once mounting and wiring is completed, power up the LR-3200 and check that the Red LED is illuminated. Drive a vehicle/walk with an attached tag into the read-zone on the lane. Observe the Green LED activity light, good reads are indicated by blinking from the Green LED.

For Additional Assistance

• • • In the U.S. call **Technical Support**, +1-408-825-1100 • • •

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