

Installation Sheet (Wiegand Interface) XP-3620 UHF Card Reader

These instructions are for AWID's Model XP-3620 switchplate-type reader, using compatible UHF credentials from AWID.

Parts List

- (a) 1 Installation Sheet XP-3620
- (b) 1 Model XP-3620 Reader
- (c) 2 #6-32 X 1" machine screw (for single-gang utility box)

Preparation

Reader Location: Select the reader's mounting location. The XP-3620 Reader may be screwed to a single-gang utility box like a cover plate, or to a wall or other surface. On a metal surface, read range is reduced about 20%. The XP-3620 Reader may be exposed directly to rain or snow.

DC Power Supply: DC power for this reader is usually supplied from the +DC and Ground terminals of the Wiegand reader port on the system's panel. If this is not possible, use an independent power supply. Power may be shared with other readers if the supply has sufficient current capacity. The power supply should be nominal +12 volts DC (as low as +5 volts is OK); 1 ampere capacity; linear-rated; regulated DC output.

Cable to the system's panel: 4 conductors from the reader to the panel (2 wires for DC power, and 2 wires for Wiegand data). 22 gauge. Overall 100% shield for both power and data. 500 feet maximum length.

- If the DC power supply is independent from the panel's reader port, the reader's **Black** wire must be connected to *both* the DC power supply's Negative terminal and the panel's Ground terminal.
- If the DC power supply is close to the reader, run two 22 gauge cables – 2 wires for DC power, and 3 wires for Wiegand data. Both cables must be overall-shielded and earth-grounded.
- **Conduit:** If cables are pulled through metal conduit, the conduit should be earth-grounded (like the cables).

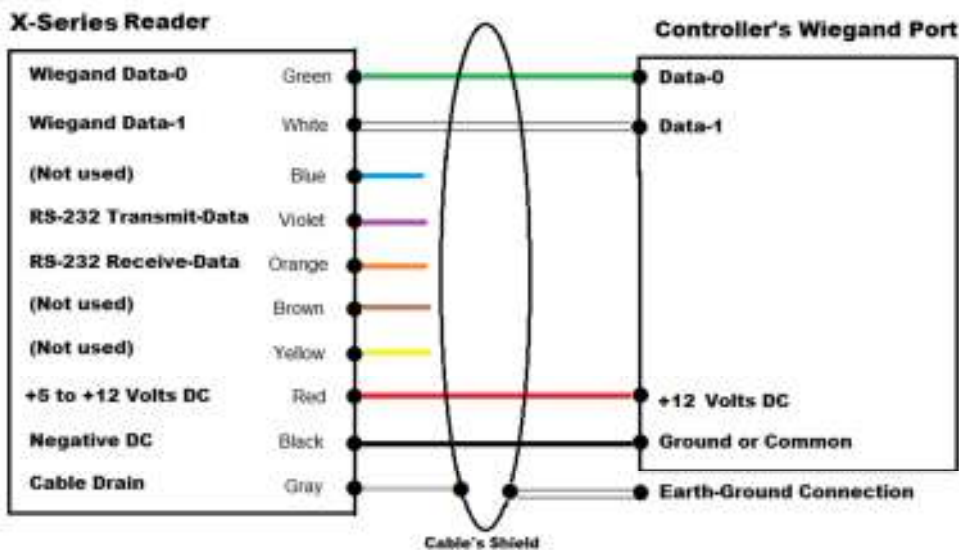
Procedure

1. **Connector** – Cut off the white 10-pin connector from the end of the reader's cable. Discard the connector.



(continued)

2. **Open the Reader** – Snap open the reader’s front frame by inserting a wide screwdriver blade in the slot at the bottom edge of the frame. Twist the blade gently. Do not remove the reader’s central area (with the LED and logo).
3. **Wire Connections** – Connect the reader’s wires to the cable(s) for power and data.
 - a. First, connect **black** to the panel port’s Ground terminal, and, if separate, to the power supply Negative.
 - b. Connect **green** to the Data-0 terminal. Connect **white** to the Data-1 terminal.
 - c. Connect the **gray** drain wire to the shield of the connecting cable.
If power and data are in separate cables, connect all three drains or shields together near the reader.
 - d. At the end of the cable(s) near the panel (and near the power supply, if separate), connect the **shield** to a verified earth-ground.
 - e. Last, connect **red** to the DC Positive terminal.



4. **Reader Mounting** – Feed the reader’s cable through the utility box or the wall’s cable opening. Fasten the reader to the utility box or the wall, with screws through the holes inside the open reader. Use the supplied screws for mounting on a utility box. When mounting is finished, snap the cover frame on the reader.
5. **Reader Test** – When power is applied to the XP-3620, the LED initializes to steady-red for standby, and the beeper sounds. With every presentation of an AWID UHF card to the reader, the LED changes color momentarily, and the beeper sounds briefly. Read range with a compatible AWID card is up to 6 inches.
6. **System Test** – Wire the reader to the system’s controller. Program the code for the AWID UHF card or keytag into the host system, with full priority, all doors groups, and all time zones. Present the card or keytag to the reader. Observe door unlock or gate opening, indicating “Access Granted” by the system.

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